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VILLE DE GENEVE

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J. Franklin - Narrative of a journey to shores of Polar Sea
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BOTANICAL APPENDIX,

BY

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THE following list of plants is not offered, as containing any thing like a full catalogue of the Flora of the country through which we travelled. During our summer journeys, only a small portion of time could be allotted to Botanical researches, and the constant and more important duties of the other officers prevented them from aiding me in collecting objects of Natural History, which they were otherwise anxious to do. Under such circumstances, a large proportion of plants must have escaped our notice, and the disasters attending our return across the Barren Grounds from the sea-coast, caused us to leave behind the whole collection made during the summer of 1821, with the exception of a few plants collected during the descent of the Coppermine River, which were intrusted to Mr. Wentzel's care when he left us. The part of the collection, which is lost, contained some plants, which I deemed to be new or curious.

In drawing up the list, imperfect as it is, I have received much assistance from able botanists. To Mr. Brown I am under the greatest obligations, not only for the liberal use of the Herbarium and Library, which, so happily for science, have been placed in his possession; but also for the friendly manner in which he aided my researches, and condescended to solve the doubts so frequently presenting themselves to one little versant in these pursuits. In addition to this general assistance, he kindly superintended the botanical drawings, and has enriched my catalogue with the lists of the Cyperoidæ (including the Carices), the Graminæ, Junci and Filices, and, with the accounts of the genera Eutoca, Heuchera, and Cryptogramma.

The collections of Pallas and Pursh, now belonging to Mr. Lambert, rendered the power of referring to his valuable Herbarium, an object of the utmost importance to me; and the desire of promoting the science, which so eminently distinguishes his character, induced him cheerfully to accord it.

Professor Schwægrichen, when in London, named the Musci, which renders that part of the list of high authority; and Dr. Hooker, by undertaking the examination of the Lichenes, has stamped a value upon a portion of the catalogue, upon which it was peculiarly desirable to have the opinion and authority of an eminent cryptogamic botanist.

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To reduce the size of the catalogue, the particular habitats of the plants have been omitted and letters placed in brackets, at the end of the references, to denote the districts in which they were found.

(W.) Denotes the wooded country from latitude 54° to 64° north.

(B.) Denotes the Barren Grounds from lat. 64° to the Arctic Sea, in lat. 69°.

I am indebted for many corrections in this edition to my friend Dr. Hooker.

MONANDRIA.

1. *HIPPURIS VULGARIS*, Willd. *Spec. Plant.* i. p. 26. *Pursh. Fl. Amer.* i. p. 3. *Engl. Bot. t.* 763 (W.)
2. *H. TETRAPHYLLA*, Willd. i. p. 27. *H. maritima*: *Vahl. Enum.* i. p. 14. (W.)
Obs. Species a priori diversa, inter notis aliis apicibus (monente doctiss. Brown) foliorum intactis.
3. *BLITUM CAPITATUM*, Willd. i. p. 30. *Pursh. i.* p. 4. (W.)

DIANDRIA.

4. *VERONICA PEREGRINA*, Willd. i. p. 76. *Pursh. i.* p. 11. (W.)
5. *PINGUICULA VULGARIS*, Willd. i. p. 110. *Eng. Bot. t.* 70. (W.B.)
6. *UTRICULARIA INTERMEDIA*, *Wahlenberg. Fl. Lapp.* p. 11. *Engl. Bot. t.* 2489. (W.)
7. *LYCOPUS VIRGINICUS*, Willd. i. p. 121. *Pursh. i.* p. 16. fide spec. *Pursh. in herb. Lamb.* at verticilli non pauciflori ut dixit Rœm. in *Syst.* (W.)
8. *LEMNA TRISULCA*, Willd. iv. p. 193. *Engl. Bot. t.* 926. (W.)
9. *L. MINOR*, Willd. iv. p. 195. *Pursh. i.* p. 22. *Engl. Bot. t.* 1095. (W.)

TRIANDRIA.

10. *VALERIANA SYLVATICA*, floribus triandris hermaphroditis, foliis caulinis pinnatis acutis; radicalibus oblongis integerrimis. *MS. Herb. Banks.* (W.)
Hab. on the Clear-water River. Specimens of this plant were brought from Newfoundland by Sir Joseph Banks, in 1781, and are preserved in his herbarium, under the name here given.
11. *SISYRINCHIUM ANCEPS*, *Persoon. Ench. Bot. t.* p. 50. *Pursh. i.* p. 31. (W.)
12. *ELEOCHARIS PALUSTRIS*, *Roem. et Sch. Syst.* ii. p. 151. *Scirpus palustris*: *Willd. i.* p. 291. *Pursh. i.* p. 54. (W.)
13. *SCIRPUS CÆSPITOSUS*, Willd. i. p. 292. (W.B.)
14. *S. LACUSTRIS*, Willd. i. p. 296. *Pursh. i.* p. 56. (W.)
15. *S. MARITIMUS*, Willd. i. p. 306. (W.)
16. *S. SYLVATICUS*, Willd. i. p. 307. *Pursh. i.* p. 56. (W.)
17. *ERIOPHORUM VAGINATUM*, Willd. i. p. 312. (W.B.)
18. *E. ANGUSTIFOLIUM*, Willd. i. p. 313. *Pursh. i.* p. 58. (W.B.)

19. *E. STRICTUM*, spicis pedunculatis involucri brevioribus, squamis acutiusculis tenuissimè ciliatis, foliis strictis planis apice triquetris, culmo teretiusculo. *Brown, M.S. (W.)*

Dubia species *E. tenello (Nutt.) proxima. Brown.*

20. *ALOPECURUS ALPINUS*, *Smith. Fl. Brit. iii. p. 1386. Brown, Suppl. Parry's Voyage, No. 54. (B.)*

21. *A. ARISTULATUS*, *Mich. Am. i. p. 43? A. subaristatus: Pers. Ench. i. p. 80. Pursh. i. p. 66. (W.)*

22. *AGROSTIS LAXIFLORA*, *Trichodium laxiflorum: Mich. Am. i. p. 42. t. 8. Pursh. i. p. 61. (W.)*

23. *STIPA CANADENSIS*, *Poiret. Encyclop. Bot. vii. p. 452. Pursh. i. p. 72.*

Stipa juncea: Mich. Am. i. p. 54. Oryzopsis parviflora, Nuttall (fide Nutt. ipso.) (W.)

24. *ORYZOPSIS ASPERIFOLIA*, *Mich. Am. i. p. 51. t. 9. Pursh. i. p. 60. (W.)*

25. *CALAMAGROSTIS CANADENSIS*, *Nuttall. Gen. Amer. Pl. i. p. 46. Arundo Canadensis: Mich. i. p. 73. (W.)*

26. *C. STRICTA*, *Arundo stricta, Schrad. Germ. i. p. 215. t. 4. f. 5. Smith. Compend. Fl. Brit. p. 20. Eng. Bot. t. 2160. (W.)*

27. *C. PURPURASCENS*, panicula spicata, glumis glabris, perianthii valvula inferiore scabra: apice 4-dentato; dorso aristata, rudimento plumoso villis baseos duplò longiore *Brown. MS. (B.)*

28. *AIRA AQUATICA*, *Willd. i. p. 376. (W.)*

29. *HIEROCHLOA FRAGRANS*, *Roem. et Sch. Syst. ii. p. 514. Holcus fragrans: Willd. iv. p. 936. Pursh. i. p. 78. (W.)*

30. *H. ALPINA*, *Roem. et Sch. Syst. ii. p. 515. Brown. Suppl. Parry's Voy. No. 66. Holcus alpinus: Wahl. Fl. Lapp. p. 31. t. 2. (B.)*

31. *TRisetum SUBSPICATUM*, *Brown. Suppl. Parry's Journ. No. 65. Trisetum airoides, Roem. et Sch. Syst. ii. p. 666. Aira subspicata: Willd. i. p. 377. (W.B.)*

32. *AVENA STRIATA*, *Mich. Am. i. p. 73. Pursh. i. p. 86. (W.)*

33. *BECKMANNIA CRUCEIFORMIS*, *Roem. et Sch. Syst. ii. p. 695. Cynosurus cruceiformis: Willd. i. p. 412. (W.)*

34. *POA CROCATA*, *Pursh. i. p. 80. (W.)*

35. *P. ALPINA*, *Willd. i. p. 386. Pursh. i. p. 79. (W.)*

36. *FESTUCA OVINA*, *Willd. i. p. 419. (W.B.)*

37. *BROMUS PURGANS*, *Willd. i. p. 431. Pursh. i. p. 85. (W.B.)*

38. *HORDEUM JUBATUM*, *Pursh. i. p. 89. (W.)*

39. *ELYMUS CANADENSIS*, *Willd. i. p. 468. Pursh. i. p. 89. (W.)*

40. *E. MOLLIS*, spica erecta villosa, locustis geminatis 4-5-floris brevè setigeris glumas setaceas superantibus. *Brown, MS. (W.)*

TETRANDRIA.

41. *GALIUM CLAYTONI*, *Mich. Fl. Am.* i. p. 78. *G. trifidum*, *Pursh.* i. p. 103. *Aparine*, No. 558, *CLAYTONI*, *Gronov. Fl. Virg.* 18. fide herb. *GRONOV. G. tinctorium*, *Frank. Append. edit. prior.* No. 40. (W.)

Herba glabra.—Caulis pedales graciles, striati, ramosi, debiles, inferne marcescentes, angulis diaphanis oculo armato retrorsum aculeatis. Folia caulina inferiora et ramea quaterna, elliptica; caulina superiora lineari-oblonga, plerumque quina, internodiis sesquipollicaribus triplo breviora; omnia obtusa, margine et nervo sparsiter sub lente aculeata. Flores parvi, albi, triandres. Pedunculi plerumque bini, rarius tres, uni-vel biflori, breves, axillares et terminales. Corolla glabra, trifida, fructu vix major, laciniis ovatis, acutiusculis, trinerviis. Fructus parvus, globosus, glaber. Specimina Michauxiana non vidi sed stirps nostra certè eadem ac planta Claytoni.

Obs. *Galium* palustre e Scotia, quod habitu simillimum diversum est, foliis latioribus fere obovatis, inferioribus quinis vel senis, superioribus quaternis, et sæpe non semper, inæqualibus, pedunculis paniculatis divaricatis, corollisque majoribus, quadrifidis tetrandris. In hoc quoque caulis tactui retrorsum scaber quamvis *Cel. Smith* in *Engl. Flor.* stirpes Anglicas læves descripsit. *Galium* uliginosum cum quo *Cel. Michaux* stirpem suam comparat differt foliis senis, mucronulatis et sæpe obovatis. *G. trifidum*, *Wahl.* pedunculos longos arcuatos, capillares habet.

42. *G. SEPTENTRIONALE*, *Roem. et Sch. Syst.* iii. p. 253. *G. boreale*, *Pursh.* i. p. 104. *Frankl. Appen. edit. prioris*, No. 41. (W.)

Caulis bipedalis erectus, tetragonus, lævis, nitidus, nodis purpureo-fuscis, angulis scabriusculis. Rami graciles, breves, superiores floriferi. Folia sesquipollicaria, internodiis breviora, quaterna, linearia, vix acuminata, supra, in marginibus revolutis et subtus in nervis, pilis brevissimis scabriuscula. Flores albi numerosissimi. Panicula ter quaterve trichotoma, divisuris singulis foliolis duobus ellipticis bracteatis. Pedunculi breves, glabri, subcorymbosi, erecto-patentes. Corolla alba, fructu triplo major, 4-5-6-fida, inter cujus laciniis stamina efflorata reflexa sunt. Fructus setis albis, tenuissimis, apicibus rectis, fere tomentosus. Stirps nostra cum speciminibus Pallasianis et Sibiria in Herbario Lambertiano servatis convenit, etiamsi in illis folia latitudine maximè variant. *G. boreale*, quod e Scotia *D. Hooker* benignè comm. habeo, differt caule pubescenti, foliis latioribus, ovato-lanceolatis, superioribus ovatis, plerumque 5-nerviis, marginibus fere planis, pubescentiâ pedunculorum patentissimâ, corolla minori, setis fructus apicibus inclinatissimis (vix tamen uncinatis ut *Cel. Smith.* in *Engl. Flor. descriptis*).

Obs. The Cree women dye red with the roots of the *G. Claytoni* and *G. septentrionale* indiscriminately.

43. *PLANTAGO MAJOR*, *Willd.* i. p. 641. *Pursh.* i. p. 98. (W.)

44. *P. LANCEOLATA*, var. ? bracteis obtusissimis, foliis latè lanceolatis glabriusculis. (W.)

β. P. lanceolata, *Willd.* i. p. 644 ? *P. montana*, *Huds. Flor. Angl.* ed. i. p. 53 ? (B.)

Folia lanceolata, acuta, trinervia, pilis raris, incanis obsita, cum petiolis canaliculatis palmaria. Scapus spithameus, teres, pilosus. Spica pollicaris, cylindrica obtusa. Calyces et corollæ erubescens. Stamina corollâ triplo longiora, filamentis albis, antheris stramineo-lævis.

Hab. on gravelly banks of rivulets on the Copper Mountains, lat. 67°.

45. *CORNUS CANADENSIS*, *Willd.* i. p. 661. *Pursh.* i. p. 107. *Sassagoomena-ah-tick*, *Cree lang.* (W.)

46. *C. ALBA*, Willd. i. p. 662. Pursh. i. p. 109. (W.)

The lead-coloured berries are named by the Crees *musqua-meena* (bear-berry), because the bear fattens upon them.

47. *ELÆAGNUS ARGENTEA*, Nuttall, *Am. Gen.* i. p. 97. *E. nitida*. Banks' *Herb. Elæagnus argentea*, Pursh. i. p. 114. (W.)

48. *POTAMOGETON PERFOLIATUM*, Mich. *Flor. Am.* i. p. 101. (W.)

Folia cordato-lanceolata, longè acuminata, longitudine spithamea, latitudine ad basin pollicaria. Species forsan ab Europa diversa.

49. *P. PECTINATUM*, Smith, *Fl. Brit.* i. p. 197. *Eng. Bot.* t. 323. (H.)

PENTANDRIA.

50. *MYOSOTIS LAPPULA*, flore albo, Willd. i. p. 749. Pursh. i. p. 34. (W.)

51. *LITHOSPERMUM PANICULATUM*, Lehm. *asperif.* ii. p. 289. *Pulmonaria paniculata*, Pursh. i. p. 131. *Frankl. Appen.* i. ed. No. 52. (W.)

Obs. Flores azureo-cærulei; immaturi plerumque incarnati. Faux corollæ eminentiis 5 flavis obtusis, fornicibus exteris respondentibus et staminibus alternantibus semi-clausa. Fructus quatuor ovato-conici, trigoni, tunicâ rugosâ tecti et apice conî paulò producto basi styli affixi.—Regionum sylvaticorum ad Sinum Hudsonis ornamentum frequentissimum.

52. *L. MARITIMUM*, Lehm. *asperif.* ii. p. 291. *Pulmonaria maritima*, *Frankl. App.* i. ed. No. 53. (W.B.)

53. *L. INCISUM*, Lehm. *asperif.* ii. 303. *Batschia longiflora*, Nutt. *Am. Gen.* i. p. 114. *Frankl. Append.* i. ed. No. 50. (W.)

54. *L. CANESCENS*, Lehm. *asperif.* ii. p. 305. *Batschia canescens*, Mich. *Fl. Bor. Amer.* i. p. 130, t. xiv. fide specim. Purshian. in herb. Lambert. B conspicua, *Frankl. Append.* i. ed. No. 49. (W.)

55. *ANDROSACE ELONGATA*, Willd. i. p. 797. (W.B.)

56. *A. SEPTENTRIONALIS*, Willd. i. p. 798. (B.)

57. *PRIMULA EGALICENSIS*, *Flor. Dan.* t. MDXI. Lehm. *Monogr.* p. 64, t. vii. (B.)

Radix fibrosa.—Folia ovata obtusiuscula, integerrima, in petiolo longo attenuata, plana, vix margine revoluta, levia, glabra, opaca, subtus nervo validiori percursa. Scapus palmaris, foliis multoties longior, gracillia, maculis rubris interstinctis. Umbella biflora, rarius triflora, involucreta foliolis duobus, setaceis basi connatis et in auriculis obtusissimis productis, cum foliolo minuto setaceo exauriculato interjecto. Calyx tubulosus, rubro maculatus, superne paulo dilatatus, 5-angulatus, dentibus 5 lanceolatis obtusis. Corolla semisupera hypocrateriformis, rubescenti-alba, ore citrino; tubo calycem superanti, limbo plano, laciniiis 5, cuneiformibus bifidis. Stigma inclusa.

58. *P. FARINOSA*, Smith, *Engl. Flora*, i. p. 272. (W.)

59. *P. FUSILLA*, foliis obovato-spathulatis repando dentatis subtus scapoque farinosi, umbella pauciflora, corollæ tubo calyce longiore limbum vix superante; laciniiis obcordatis obtusis; ore nudo. *Ed. Philos. Journ.* 6. p. 322, t. xi. fig. 2. *Hooker, Exot. Flor.* t. 68. caractere emendato. *P. Hornemanniana*, *Frankl. App.* i. ed. No. 58. exclus. synon.

Obs. Stirps nostra a Cel. Hooker cum speciminibus Lapponicis P. Hornemannianis a D. Wihström acceptis comparata, diversa pronuntiata fuit præcipuè propter proportionem limbi et tubi corollæ.

Specimina nostra mense Julii lecta, majora erant icone in *Flor. Exot.* et folia vix farinosa et minus altè dentata habebant, at specimina primo Maii in latitudine 54° florentia revera pusilla erant, icone in *Ed. Phil. Journ.* plus duplo minora, et dense farinosa.

60. *DODECATHEON INTEGRIFOLIUM*, Michaux. *Fl. Am.* i. p. 123. (W.)

Our specimens agree with those in the Lambertian Museum, from Eastern Siberia, collected in Billings' Expedition.

61. *MENYANTHES TRIFOLIATA*, Willd. i. p. 811. *Pursh.* i. p. 139. (W.)

62. *LYSIMACHIA THYRSIFLORA*, Mich. *Fl. Amer.* i. p. 127. (W.)

63. *PHLOX HOODII*, humilis multicaulis, foliis subulatis margine lanatis, floribus sessilibus solitariis, limbi laciniis obovatis. (W.)

Tab. 28. Expl. Icon. figura plantæ magnitudine naturalis. Sequentes omnes ad lentem auctæ. *a.* folia duo. *b.* flos. *c.* calyx longitudinaliter fissus et explanatus. *d.* corolla aperta ad venas ejus stamina et pistillum ostendendas. *e.* stamen.

This beautiful species is a striking ornament to the plains in the neighbourhood of Carlton-house, forming large patches, which are conspicuous from a distance. The specific name is a small tribute to the memory of my lamented friend and companion, whose genius, had his life been spared, would have raised him to a conspicuous station in his profession, and rendered him an ornament to any science to which he might have chosen to direct his attention.

64. *EUTOCA FRANKLINII*, foliis pinnatifidis bipinnatifidisve, ovulis placentæ singulæ viginti pluribus. *Brown ad finem hujus catalogi.* (W.)

65. *CAMPANULA ROTUNDIFOLIA*, Willd. i. p. 892. *Pursh.* i. p. 159. (W.)

β. *linifolia*: *Flor. Dan.* t. 189. *Linn. Fl. Lapp.* No. 84. (W.)

66. *C. UNIFLORA*, Willd. i. p. 890. *Wahl. Fl. Lapp.* p. 63. (B.)

67. *AZALEA PROCUMBENS*, Willd. i. p. 832. *Pursh.* i. p. 154. (B.)

68. *CAPRIFOLIUM PARVIFLORUM*, *Pursh.* i. p. 161? (W.)

69. *XYLOSTEUM CÆRULEUM*, *Lonicera cærulea*. Willd. ii. p. 988. *Pallas, Flor. Ross.* i. p. 58, t. 37. fide spec. *Pallas.* in herb. *Lamb.* (W.)

70. *X. VILLOSUM*, Michaux. *Fl. Am.* i. p. 106. (W.)

71. *X. INVOLUCRATUM*, pedunculis bifloris, baccis distinctis, involuero tetraphyllo: foliolis sub-rotundis interioribus bilobis, foliis ovato ellipticis. *Lonicera involucrata*, *MS. Herbario Banksiano.* (W.)

72. *SYMPHORIA OCCIDENTALIS*, *R. Brown, MS.* (W.)

S. racemose proxima.

73. *RHAMNUS ALPINUS*, Willd. i. p. 1097. (W.)

74. *RISES RUBRUM*, Willd. i. p. 1153. (W.)

75. *R. HUDSONIANUM*, inerme, ramis erectis, foliis trilobis; supra glaberrimis; subtus resinoso-punctatis petiolisque villosis, racemis erectis pubescentibus, bracteis brevibus, calycibus campanulatis laciniis patentibus villosis, germinibus punctatis baccis globosis glabris (nigris). *R. nigrum. Frankl. App.* i ed. No. 75. exclus. synon. (W.)

Frutex tripedalis inermis. Cortex brunescens, cuticulâ incano-griseâ, lævigatâ, deciduâ tectus. Folia vix ad medium triloba, paulo latiora quam longiora, inæqualiter grosseque serrata, basi brevissimo fere horizontaliter secto, vix unquam cordata, supra glaberrima, venosa, subtus pallidiora pilis brevissimis molibus albescentibus villosa, et sparsim punctis resinosis exiguis flavis aspersa. Petiolus diametrum folii vix æquans, antice sulcatus, tenuissime villosus. Bractee parvae, membranaceæ, subulatae. Pedicelli villosi, longitudine fere florum, bracteis duplo longiores. Flores parvi campanulati. Laciniae calycinae albae, ellipticae, obtusae, patentes, extus villosae, nervis tribus anastomosantibus. Petala exigua, alba, erecta, spatulata. Germen obovatum, utrinque leviter sulcatum, glandulis flavis exiguis aspersum. Stylus etiam sulcatus quasi ex duobus connatis formatus, stigmatibus huius glandulosis.

Hab. Gathered principally in lat. 57°, on a calcareous soil, in dry woods.

76. *R. FLORIDUM*, Willd. i. p. 1156. Pursh. i. p. 164. (W.)

77. *R. LAXIFLORUM*, Pursh. ii. p. 731, fide spec. Menziesianis in herb. Lambert. *R. glandulosum*, Frankl. Append. i. ed. No. 74, *exclus. synonym.*

Frutex erectus. Ramî erecti. Cortex nitidus, griseus (punctis crebris nigris an Lichene? ornatus). Folia supra subtusque glaberrima, pubē gracili vix conspicuâ ciliata, supra opaca, subtus pallide nitentia, sublaevia, ad medium paginae 5-loba, lobis stellatim patentibus; duobus posterioribus paulo minoribus plerumque approximatis; omnibus grosse duplicato-serratis. Petiolus gracilis diametrum folii sesquipolliaris paulo superans, antice sulcatus, ad basin auctus marginibus membranaceis, semiaimplexicanalibus, et ciliatis pilis elongatis glanduliferis, plerumque glaberrimis, in initio tamen interdum pilis brevissimis glanduliferis obsitis. Racemus plerumque erectus, pedunculatus, cum pedunculo ultra hipollacarum, circiter 12-florus, naepe cum pedunculo simplici ad basin. Pedicelli erecto-patentes flore paulo longiores, singuli bractea membranacea, flore fere duplo breviori, ovato-lanceolatâ, acuminatâ, fulerati. Bractee pedicelli et germinis pilis brevibus, apicibus globosis purpureis copiose tecti. Flores parvi, et non obstante observatione Cel. Purshii floribus *R. floridi* triplo minores. Calyx lacinias obovatis, patentibus, viridissimis-albis, venis tribus viridibus parallelis. Petala exigua, spatulata, persicino-rubra. Stamina petala æquantia, filamentis rubris, antheris purpureis. Stylus utrinque sulcatus, stigmatibus simplicibus recurvatis.—Fructus non visus.—Stirps nostra inermis cum speciminibus Menziesianis in foliis floribusque omnino quadrat, in illis tamen cortex ramorum vetustiorum nigrescit et spinis, paucis, parvis, uncinatis armatus est.

R. rigens Michx. nobis non visum sed planta nostra characteribus specificis illo datis gaudet exceptis tamen rugositate et pubescentia foliorum quibus caret.

Hab. In shady woods on the banks of the Clear-water River, lat. 57°.

78. *R. OXYACANTHOIDES*, Pursh. i. p. 165 f. Frankl. Append. i. ed. No. 77. *Grossularia oxyacantha* foliis amplioribus, e sinu Hudsonis, Dill. eth. 166. t. 139. f. 116? (W.)

Obs. Species due tantum *Grossularie* aculeate in terris Sinu Hudsonis vicinibus nobis obvius fuerunt et hæc sola cum stirpe *Dillenio* pieta convenit loco natali et bacâ glabrâ. Adhuc tamen de synonymis dubito quoniam non mihi contigit speciminâ certâ *R. oxyacanthoides* videre et stirps nostra cum characteribus illo auctoribus datis non in omnibus convenit. Notas quadam *R. oxyacanthoidis* nostri adjungo.

Tripedalis.—Ramî graciles, cortice pallidè cinereo, aculeis tribus majoribus horizontalibus, rectis, subulatis, basi connatis, sub gemmis; aculeis crebris multo minoribus sed inter se æqualibus, rectis, gracilibus undique sparsis. Aculei omnes pallidi, apicibus acutissimis vix brunnescentibus. Folia primo vere erumpentia foliis *R. triflori* vel *R. hirtelli* non dissimilia, pollicaria, circumscriptione fere orbiculata, supra opaca, pilis brevissimis sub lente tantum conspicuis obsita, subtus pallidiora, brevissime villosa, ad tertiam partem diametri triloba, lobis rotundatis, plerumque irregulariter duplicato 3-dentatis. Petiolus folii brevior, et ciliis pubescentibus fimbriatus. Folia autumnò ferè glabra pollices duo lata, lobis magis acutis;

lateralibus altè incisib, hinc sub-quinque loba, basi integro fere truncato. *Flores* nutantes, e gemmis foliosis mox ramis evasuris erumpentes. *Pedunculi* plerumque biflori, petiolis breviores, villosi. *Pedicelli* floribus duplo breviores, singuli bractea ipsos æquant, membranacea, convoluta, ovata, obtusa, ciliatâ fulcrati. *Calyx* tubuloso-campanulatus, viridescens-albus, extus glaberrimus, intus inferne barbatus, laciniis 5-linearibus, apice rotundatis, longitudine fere tubi cylindrici. *Petala* alba, membranacea, obovata, obtusissima, inferne paulo attenuata, laciniis calycinis duplo breviora. *Stamina* petala æquantia, antheris ovalibus, albis. *Stylus* exsertus, semi-bifidus, dimidio infero pilis patentibus densè barbato. Germen glaberrimum. *Bacca* globosa, glaberrima, fere nigra, insipida, magnitudine fructus Pruni avium.

79. *R. LACUSTRE*, *Pursh.* i. p. 165? (W.)

Cortex brunneus. Rami undique obsiti aculeis creberrimis, cortice concoloribus, inter se inæqualibus, sed illis sub gemmis vix aliis majoribus. *Folia* 2-pollices lata, ultra medium 5-loba, lobis inciso dentatis, 3 anterioribus ferè cuneatis, acuminatis, duobus posterioribus brevioribus posticè approximatis. Petiolus diametrum folii æquans. *Bacca* nitentia, purpurascens-nigra, hispida, gustui ingrata magnitudine fructus *R. nigri* culti.

An stirps hæc, ad oras Sinu Hudsonis prope *York Factory* tantum baccas ferens visa, sit *R. lacustris Purshii* mox determinanda est. Flores non nobis lecti fuerant. In cortice, aculeis, et foliis cum specimine floribus destituto, in herb. Lambertiano servato et manu Purshii *R. oxyacanthoides* ascripto convenit.

80. *VIOLA PINNATA*, *Willd.* i. p. 1160. (W.)

81. *V. BLANDA*, *Pursh.* i. p. 72. *V. pallens*, *Herb. Banks?* (W.)

82. *V. OCHRILEUCA*, *Decand. Prodr.* i. p. 297, No. 41. *V. debilis*, *Mich. Fl. Am.* ii. p. 150, fide spec. *Pursh.* in Herb. Lamb. *V. striatæ*. (Aiton. H. Kew.) var.? (W.)

Species cujus synonyma auctoribus data confusa sunt. Planta nostra (exsiccata) habet folia et sepalâ glabra, sed punctis exiguis depressis, creberrimis, fusciscentibus obsita. In hoc convenit cum *V. rostratâ Pursh.* quæ tamen differt corollis imberbibus, nectarioque longiori et formâ diverso. Nectarium *V. ochrileucæ* nostræ sæpius crassum est, obtusissimum, corollâ magnâ brevius, cum processu filiformi, tubuloso, 2 vel 3-lineas longo, abrupte supra oriente: interdum rudimentum tantum hujus processus adest, et rarius calcar sensim attenuatum est in processum subulatum tennem sursum curvatum. In herbario Lambertiano extant specimina plura cum stirpe nostra convenientia sub nomine *V. debilis Mich.* ad eodem folio agglutinato cum specimine unico cui nomen *V. caninæ WALTERI* manu Purshii scriptum. Hæc cum *V. debili* nostra (No. 83) convenit. Sunt quoque in eodem herbario specimina Pallasiana *V. striatam* et *V. Ponticam* denominata quæ ab exemplaribus illis nostris *V. ochrileucæ* quibus processus filiformis rudimentarius, non differre videntur.

83. *V. DEBILIS*, *Pursh.* i. p. 174, fide *Herb. Lamb.* sed excl. synonym. *Mich.* ad præced. pertinet. *Nutt. Gen. Am.* i. p. 150. (W.)

β? (*V. striata*, *Nutt.* i. p. 150?) (W.)

Ab α differt floribus majoribus ochrileucis ad faucem purpureo striatis, et caule cum foliis brevissimè pubescente. Habitu tamen simillima et vix species diversa. Hujus calcar interdum processus gracilis adest ut *V. ochrileucæ*, No. 82.

84. *V. CANINA*, var.? *Willd.* i. p. 1164? (W.)

85. *V. CANADENSIS*, *Willd.* i. p. 1166. *Pursh.* i. p. 174. (W.)

86. *COMANDRA UMBELLATA*, *Nuttall. Am.* i. p. 157. Thesium umbellatum, *Pursh.* i. p. 177. *T. corymbulosum*, *Mich. Fl. Am.* i. p. 112. (W.)

Comandra a *Santalo* differt calyce persistente momentè doctiss. Brown, qui primus genus distinctum esse *Prodr. pl. Novæ Hollandiæ*, i. p. 353. indicavit. „Siccata vix nigrescit.

87. *C. LIVIDA, sarmentosa, foliis ellipticis flaccidis, umbellâ axillari solitariâ pedunculatâ sub-triflorâ. (W.)*

Sarmentum inter muscos repens radicem refert et caules alternatim edit. *Caules* spithamei simplices suffruticosi, erecti, inferne teretes, superne obsolete triquetri, basi squamis fuscis, ellipticis acutiusculis muniti, quæ sensim superne in folia mutantur. *Folia* elliptica, venosa, obtusa, nervo excurrenti apiculata, flavo-viridacenta, concolora, subsessilia. Umbella in medio caulis axillaris, bi-vel triflora, foliis immersa, pedicellis brevissimis, plerumque nudis vel rarissime foliolo solitario subtensis. Flores parvi, inconspicui. *Calyx* campanulatus, lacinias quinque acutis, viridibus, intus apicem versus fuscis: *Squamæ* (Petala) viridofusces. *Stylus* crassus. *Fructus* nux globosa, calyce coronata, rubra, pisum sativum magnitudine æquans.

Variat foliis rugosis flavo maculatis reticulatisque. *Herba* siccata nigrescit.

Hab. In shady mossy woods. Not seen to the northward of Great Slave Lake. Grows also in Newfoundland.

88. *APOCYNUM ANDROSEMIFOLIUM, Willd. i. p. 1259. Pursh. i. p. 179. (W.)*

89. *GENTIANA AMARELLA, Willd. i. p. 1347. (W.)*

90. *G. PROFINQUA, corollâ 5-fida tubuloso-campanulata; apicebus limbi subserratis; fauce nuda, foliis radicalibus lineari-obovatis; caulinis lanceolatis. (W.)*

Facies omnino *G. pratensis* sed fauce nuda.

91. *G. ROTATA, Gmel. Flor. Sib. iv. p. 112. No. 78, t. 53, f. 1. (W.)*

Cum figurâ Gmelini planta nostra quadrat, forsitan tamen a *Swertii* rotatâ, *L.*, species distincta propter lacinias calycis angustas corollâ longiores.

92. *G. INTERMEDIA, caule simplicissimo unifloro, foliis obovatis linearibusque obtusis brevibus, calyce sub-aquali, corollâ 4-5-fida; lacinias antice serratis; lateribus lacero-ciliatis, filamentis imberbibus, stylo mediocri. G. crinita, Frankl. Append. 1 ed. p. 734, No. 87, exclus. synon. (W.)*

Radix annua? albidâ, parva, atpenata, descendens, flexuosa, apice pariter ramosa. *Caulis* dedrantal, simplicissimus, erectus, strictus aut vix flexuosus, gracilis, levigatus, teretiuseculus, angulis quatuor prominulis, lateribus convexis, non ad insertiones foliorum incrassatus, in 3, 4, vel 5 internodiis, quorum ima brevissima, superiora elongata distinctus. *Folia* radicalia et caulina inferiora parva, obovata, obtusissima, in petiolum vix breviter attenuata, nervo medio infra prominulo: caulina superiora linearia, obtusa, par supremum interdum acutiusculum, marginibus etiam sub lentè integerimis nec scabriusculis, nervo mediò eminenti carinata. *Folia* prope basin caulis minora sunt, vix unguicularia, sed internodiis ibidem approximatis longiora, folia superiora interdum fere pollicaria etsi internodiis superioribus triplo breviora. *Flos* unicus, fere sesquipollicaris terminalis, pedunculo sub-tri-pollicari, continuatione caulis apparenti, nequidem sub flore incrassato, nec forma nec crassitudine caule diverso sustentatus. *Calyx* tetragonus, quadrifidus, tubo corollæ plerumque tertia parte brevior, lacinias lanceolatis, acuminatis, sub-carinatis, longitudine circiter tuli sui, duobus vix brevioribus, paulo latioribus. *Corolla* hypocrateriformis dilutè purpureo-cerulea, immaculata, tubo albidò, basi glandulis 4 elevatis, lanceolatis, (in siccis fusco-nigricantibus, notato: limbo 4-crurios 5-) fido, lacinias tubo triplo, interdum quadruplo brevioribus, linearibus, antice rotundatis, vix crenatis, serratisve, lateribus undique lacero-fimbriatis, ciliis breviusculis. *Stamina* tubo paulo breviora, filamentis marginibus planis, inferne ubi adnatis vix latioribus glaberrimis et nec ciliatis, nec barbatis: antheris separatis, medio dorsi affixis, ellipticis, polline flavo. *Germen* pedicello tereti, fistuloso, eglanduloso, circiter 4-lineas longo, sustentatum, compresso-sub-tetragonum, oblongum, superne in stylum geminum bilinearem attenuatum, stigmatibus duobus, cordato-rotundatis, marginibus reflexis. *Capsula* maturæcentia (stylis exclusis) pedicello duplo longiora sunt. *Semina* brunnea undique papulis vel aculeis mollibus obsita.

Obs. Species quasi *G. ciliatam*, *crinitam*, *barbatam*, *serratam*, et species alias forsàn nimis affines, characteribus intermediis connectens, tamen ob germen simillimum proxima *G. crinitæ* quæ diversa videtur caule plerumque plurifloro, lineis sex elevatis percurso (Frœl.), foliis latioribus, majoribus magisque amplexicaulis, calycis laciniis maxime inæqualibus, corollis majoribus elongato-ciliatis, et fide Frœl. filamentis ubi adnatis barbatis. Non contigit mihi videre exemplaria *G. serrata*, GUNN. quæ ex descriptione Frœl. characteribus multis cum nostrâ *G. intermediâ* convenit sed discrepare videtur inter notis aliis, foliis lanceolatis et corollis omni margine argutè serratis, nec ciliatis.

93. *HEUCHERA RICHARDSONII*, calycis limbo inæquali obliquo. *Brown, ad finem catalogi.* (W.)

94. *HERACLIVM SPHONDYLIVM*, *Willd. i. p. 1421? Nutt. Gen. Am. i. p. 181? (W.)*
Peepoon-ahtic (flute-stem), *Cree Language.*

The young stems of this plant, which is common up to lat. 58°, are used as pot herbs. We did not see it in flower, and its identity with the European plant is therefore uncertain.

95. *CICUTA VIROSA*, *Willd. i. p. 1445. (W.)*

96. *C. MACULATA*, *Willd. i. p. 1446. Pursh. i. p. 195. (W.)*

97. *SMYRNIUM TRIFOLIATUM*, *Nuttall. Am. i. p. 195. (W.)*

98. *VIBURNUM OXYCOCCLUS*, *Pursh. i. p. 203. (W.)*

Named, by the Crees, Mongsoa-Meena, or Moose Berry.

99. *V. EDULE*, *Pursh. i. p. 203. (W.)*

Its red berries, termed, by the Crees, Peepoom-meena (Winter Berry), form a great ornament to the woods.

100. *PARNASSIA PALUSTRIS*, *Willd. i. p. 1516. Pursh. i. p. 208. (W.B.)*

101. *ARALIA NUDICAULIS*, *Willd. i. p. 1521. Pursh. i. p. 209. (W.)*

The Crees use the root of this plant as a remedy against the venereal disease, under the name of Waw-pooos-ootchepeh (Rabbit-root), and also apply the bruised bark of its root to recent wounds.

102. *STATICE ARMERIA*, *Willd. i. p. 1522. Pursh. i. p. 212. (B.)*

♂. *Foliis angustioribus acutis ciliatis.* (B.)

103. *LINUM SIBIRICUM*, *D. C. prodr. i. p. 427. L. perenne, Nuttall. Am. i. p. 206. (W.)*

HEXANDRIA.

104. *ALLIVM ANGULOSEVM*, *Willd. ii. p. 76? Pursh. i. p. 223? (W.)*

105. *A. SCHÆNOPRASVM*, *Willd. ii. p. 81? Weetchœ-gun* (Stinking-Grass), *Cree. Lang.* (W.)

106. *LILIVM PHILADELPHICVM*, *Willd. ii. p. 90. Pursh. i. p. 229. (W.)*

Termed, by the Crees, Appecooseseh-ootchepeh (Mouse-root), because the common mouse of the country, a species of *Campagnol*, feeds upon its scaly bulbs.

107. *UVULARIA PUBERULA*, *Mich. Fl. Am. i. p. 199. (W.)*

Herba tenera, pedalis, sub-dichotomo-ramosa; ramis patentibus et cum caule pube brevi interdum vix conspicua indutis. Folia ovata vel cordata acuminata, nervosa, sæpè obliqua, sessilia, superiora semi-amplexicaulia, nervis pilis paucis brevibus instructis. Pedunculi 1-3, terminales, flore breviores, nutantes. Corolla flavescenti-alba, tubuloso-campanulata, petalis sex, seriè duplici, æqualibus, linearilanceolatis, acutis, intus lævibus, basi foveâ nectariferâ excavato, sub-carinatis. Stylus longus stamina et corollam sub-æquans, stigmatibus tribus brevissimis. Germen triquetrum, triloculare, loculis polyspermis. Hab. Sylvis opacis.

108. *SMILACINA BIFOLIA*, *Convallaria bifolia*. *Willd.* ii. p. 164. *Mich. Fl. Am.* i. p. 201. (W.)

Caule folisque ciliatis hinc de Sm. Canadensi. *Pursh.* i. p. 233. dubito.

109. *S. TRIPOLIA*, *Convallaria trifolia*. *Willd.* ii. p. 163. *Mich.* i. p. 202. *Gmel. Flor. Sib.* i. t. 6. (W.)

Herba tota glaberrima, caule stricto et non ad insertiones foliorum flexuoso ut in priori. Antheræ nigre.

110. *S. STELLATA*, *Pursh.* i. p. 232. *Convallaria stellata*. *Mich. Fl. Am.* i. p. 202. (W.)
Antheræ pallide.

111. *LUZULA CAMPESTRIS*, *Desvaux. Flor. Franc.* iii. p. 161. *Juncus campestris*. *Pursh.* i. p. 238. (B.)

112. *L. MELANOCARPA*, *Desvaux. Journ. de Botan.* i. p. 142. t. 5. f. 2. *Juncus melanocarpus*. *Pursh.* i. p. 238. (W.)

113. *JUNCUS TRIGLUMIS*, *Willd.* ii. p. 216. (B.)

114. *J. CASTANEUS*, *Smith. Fl. Brit.* i. p. 383. *Engl. Bot.* t. 900. (W.B.)

115. *J. ECHINATUS*, *Muhl. Gram. Am.* p. 207? (W.)

116. *J. AFFINIS*, foliis subulatis nodoso-articulatis, capitulis subpaniculatis paucifloris (3-5 floris), capsulis ovalibus calyce obtuso hexandro longioribus. *Brown, MS.* (W.)

117. *J. FILIFORMIS*, *Pursh.* i. p. 236. (W.)

118. *J. TENUIS*, *Willd.* ii. p. 214. *J. bicornis*, *Mich. Am.* i. p. 191. (W.)

119. *J. GLAUCUS*, *Willd.* ii. p. 206. (W.B.)

120. *OXYRIA RENTIFORMIS*, *Brown. List of Plants. Ross. Voy.* Ed. 2da. p. 4. *Brown. Parry's Supp.* No. 46. *Rumex dignus*, *Pursh.* i. p. 248. (B.)

121. *R. SANGUINEUS*, *Willd.* ii. p. 250. *Pursh.* i. p. 247. (B.)

122. *R. ACUTUS*, *Willd.* ii. p. 253. (W.)

123. *R. VERTICILLATUS*, *Willd.* ii. p. 250. *Pursh.* i. p. 248. (W.)

124. *TRIGLOCHIN MARITIMUM*, *Willd.* ii. p. 265. *Pursh.* i. p. 247. (W.B.)

125. *T. PALUSTRE*, *Willd.* ii. p. 264. *Pursh.* i. p. 247. (W.B.)

126. *TOPIELDA PALUSTRIS*, *Smith. Tr. Lin. Soc.* 12. p. 239. *Eng. Fl.* 2. p. 198.

T. pusilla, *Pursh.* i. p. 246. fide cel. Smith. l. c. *T. borealis*, *Wahlenberg. Fl. Lapp.* p. 89. *Frankl. App.* 1 ed. No. 122. (W.B.)

Scapus nudus, involucri (calyculis, Wahl.) albis dimidiatis trifidis pedicellum fulcrantibus ut rectè monet clariss. Wahlenberg. Herba elegans.

127. *T. CUCULINEA*, spica capitata bracteata, involucri trifido regulari. (B.)

Herba elegantia T. borealis tota carens. Folia basi spathacea, equitantia, compressa, lineari-lanceolata acuminata plana. Scapus palmaris erubescens firmus duriusculus plerumque flexuosus, folio uno alterove radiatibus simili bracteatus. Spathæ bracteorum ventricose, erubescens. Flores ferè sessiles in capitulo terminali congesti. Involucrum trifidum, corollæ approximatum, nec dimidiatum, lacinis erubescens. brevibus, ovatis, acutis. Petala sex viridia, dorso coccineo rubro, interdum tota sorbide coccinea, lineari-obovata, involucri triplo longiora. Capsulae tres ovatae, basi connatae, petalis altiores, polysperma. Flores Augusto ad ora maris hyperborici.

Our specimens of this plant were lost in crossing the Barren Grounds; but the above description, which was taken from the live plant, agrees with specimens in the Banksian Herbarium, brought from Unalaska, by Mr. Nelson.

128. *ZIGADENUS CHLORANTHUS*, scapo sub-nudo, petalis obovatis obtusis. (W.)

Herba glauca glaberrima. *Radix* bulbosa, tunicata. *Folia* radicalia, scapo dimidio breviora, erecto-patentia, linearia, acuta, canaliculata, basi vaginantia, nervis parallelis. *Scapus* cubitalis lævis, infernè obsoletè triqueter, superne teretiusculus vix flexuosus, foliis duobus bracteiformibus plerumque instructis. *Racemus* terminalis multiflorus sæpius basi ramosus; pedicellis pollicaribus, apicibus incrassatis; bracteis membranaceis, lanceolatis, concavis, acutis, pedicellis dimidio brevioribus. *Flores* viridescenti-albi, masculini hermaphroditis immixti. *Corolla* laciniis sex patentibus, obovatis basi attenuatis, infra medium glandulâ viridi obcordatâ profundè emarginatâ munitis. *Filamenta* corollam subæquantia. *Capsula* membranacea tricoeca, trilocularis ovata, acuminata, corollâ emarcidâ obtecta. *Semina* plurima angulata in loculentis duplici ordini infarcta.

HEPTANDRIA.

129. *TRIENTALIS AMERICANA*, Pursh. i. p. 254. T. *Europea* β *Americana*. Nuttall. Am. i. p. 228. Frankl. App. i ed. No. 125. (W.)

OCTANDRIA.

130. *EPILOBIUM ANGUSTIFOLIUM*, Willd. ii. p. 313. Pursh. ii. p. 259. (W.B.)

The young leaves, under the name of *L'Herbe fret*, are used, by the Canadian voyagers, as a pot-herb.

131. *E. LATIFOLIUM*, Willd. ii. p. 314. Pursh. i. p. 259. (B.)

132. *E. PALUSTRE*, Willd. ii. p. 317. Pursh. ii. p. 260. (W.B.)

133. *E. TETRAGONUM*, Willd. ii. p. 317. Pursh. i. p. 259. (W.)

Obs. A species of *Oenothera* was gathered on the borders of Lake Winnipeg, but owing to an accident the specimens were lost.

134. *VACCINIUM CANADENSE*, foliis lanceolatis utrinque pubescentibus integerrimis, corollis fasciculato-racemosis ovatis: stylo incluso. (W.)

Frutex pedalis ramosissimus. *Ramuli* teretes, flavescenti-virides, verruculosi et pubè brevi densâ, canescenti vestiti, patentés. *Folia* pollicaria, latè lanceolata utrinque acuta, integerrima, ubique præcipuè ad nervos villosiuscula, subtus pallidiora, stipulis minutis setaceis trifidis. *Racemus* plerumque terminalis, bracteis obtusis. *Calyx* acanthino-viridis, nutans, laciniis semi-ovatis. *Corolla* pallidè viridescens, globosa, inferne obsoletè pentagona, ore patulo, laciniis ovatis reflexis. *Stamina* inclusa, filamentis planis villosis, antheræ erectæ bitubulosæ, cornubus binis deorsum spectantibus. *Fructus* maturus mihi non visus. *Ramuli* floriferi foliosi. Interdum planta tota fuscescit. *Folia* masticata sapore acidam gratam edunt. Specimen hujus plantæ Kalmio lectum et sub hoc nomine in herbario Banks. conservatum extat. *Hab.* in pinetis.

135. *V. ULIGINOSUM*, Willd. ii. p. 350. Pursh. i. p. 288. (W.B.)

136. *V. VITIS IDÆA*, Willd. ii. p. 354. Pursh. i. p. 289. Weesawgum-meena, (Sour-Berry). Cree Lang. (W.B.)

137. *OXYCOCUS PALUSTRIS*, α , Pers. Ench. i. p. 419. Maskægo-meena (Swampy-Berry). Cree Lang. (W.B.)

138. *POLYGONUM AVICULARE*, Willd. ii. p. 449. Pursh. i. p. 269. (W.)
 g. *P. erectum*, Willd. ii. p. 450. (W.)
 139. *P. VIVIPARUM*, Willd. ii. p. 441. Brown. Supp. Parry's Voy. No. 45. (W.B.)
 140. *ADOXA MOSCHATELLINA*, Willd. ii. p. 472. (W.)

DECANDRIA.

141. *THERMOPSIS RHOMBIFOLIA*, Nuttall. Am. i. p. 282. *Cytisus rhombifolius*. Pursh. ii. p. 741. (W.)
 142. *LEDUM PALUSTRE*, Willd. ii. p. 602. Pursh. i. p. 300. *Wisha-capucca*. Hearn's Journey, p. 456. (W.B.)
 This plant is a better substitute for tea than the following one.
 143. *L. LATIFOLIUM*, Willd. ii. p. 602. Pursh. i. p. 300. (W.)
 Termed, by the Orees, *Kawkee-kee pucquan* (always leaves, evergreen.), and sometimes *Masking* (medicine) because they suppose that the white residents drink the infusion of it as a medicine.
 144. *KALMIA GLAUCA*, Willd. ii. p. 601. Pursh. i. p. 296. (W.B.)
 145. *RHODODENDRON LAPPONICUM*, Wahl. Fl. Lapp. p. 104. (B.)
 146. *ANDROMEDA TETRAGONA*, Willd. ii. p. 607. Pursh. i. p. 290. Brown. Ross's Voy. and Suppl. Parry's Voy. No. 43. (B.)
 147. *A. POLIFOLIA*, Willd. ii. p. 610. Pursh. i. p. 291. (W.B.)
 148. *A. CALYCOLATA*, Willd. ii. p. 614. Pursh. i. p. 291. (W.B.)
 149. *ARBUTUS ALPINA*, Willd. ii. p. 618. Pursh. i. 283. (W.)
 150. *A. UVA URSI*, Willd. ii. p. 618. Pursh. i. p. 283. Jackashey-puck, Hearn's Journey. Kleh, Chipewyan Lang. Attoongaweeat, Esquimaux. (W.)
 It has received the name of *Sac à Commis*, from the trading clerks carrying it in their smoking-bags.
 151. *PYROLA ROTUNDIFOLIA*, Willd. ii. p. 621. Pursh. i. p. 299. (W.)
 152. *P. CHLORANTHA*, Swartz. Act. Holm. 1810, p. 190, t. 5. *P. asarifolia*. Mich. Am. p. 251. (W.)
 153. *P. MINOR*, Willd. ii. p. 621. Pursh. i. p. 299. (B.)
 154. *P. SECUNDA*, Willd. ii. p. 621. Pursh. i. p. 299. (W.B.)
 155. *P. UNIFLORA*, Willd. ii. p. 622. Pursh. i. p. 299. (W.)
 156. *CHRYSOSPLENIUM ALTERNIFOLIUM*, Willd. ii. p. 637. Brown. Supp. Parry's Voy. No. 30. (W.B.)
 157. *SAXIFRAGA NIVALIS*, Willd. ii. p. 645. Pursh. i. p. 310. Brown. Supp. Parry's Voy. No. 27. (B.)
 158. *S. HIRCULUS*, Willd. ii. p. 649. (W.B.)
 159. *S. AIZOIDES*, Willd. ii. p. 650. Pursh. ii. p. 312. (B.)
 160. *S. OPPOSITIFOLIA*, Willd. ii. p. 648. Pursh. i. p. 311. Brown. Supp. Parry's Voy. No. 21. (B.)
 161. *S. CERNUA*, Willd. ii. p. 652. Brown. Supp. Parry's Voy. No. 29. (B.)

162. *S. TRICUSPIDATA*, Willd. ii. p. 657. Pursh. i. p. 312. Brown. Supp. Parry's Voy. No. 24. (W.B.)

163. *S. PETIOLARIS*, Brown in Ross's Voy. ed. II. v. 2. p. 192? Idem, Supp. Parry's Voy. p. cclxxiv. in adnotis? (B.)

Ad oras maris hyperborei lecta fuit stirps tunc ad *S. rivularem* pertinere censa, cujus specimina, rebus angustis prementibus, relicta fuerunt, tamen ex notis paucis servatis et hic subjunctis potius ad *S. petiolarem* referenda, præcipue ob petala triplinervia.

Humilis, tenera. *Radix* fibrosa. *Folia* elongato-petiolata, pilis brevissimis sub-viscidis obsita: radicalia reniformia, 5-loba, lobis rotundatis apiculatis: caulina 3-5-loba. *Caulis* bi-pollicaris, plerumque biflorus. *Pedunculus* unus altero longius, patens, ebracteatus, superne incrassatus, lanatus: alter erectus, caulem quasi terminans folio uno alterove ovato, integro vel lobato subtensus. *Calyx* semi-inferus, 5-fidus, laciniiis semi-ovatis. *Petala* alba, calycem superantia, oblongo-elliptica, obtusa, triplinervia, nervis lateralibus prope basin orientibus. *Germen* bifidum, apicibus styloideis conicis divaricatis. *Hab.* In umbrosis.

164. *S. CÆSPITOSA*, α . uniflora, Brown. Supp. Parry's Voy. p. cclxxiv. and p. ccxix. No. 26. *S. grœnlandica*, Frankl. App. ed. i. p. 738, No. 159. (B.)

Specimina hujus, quæque, oras easdem ac planta precedens habitans, æque amissa fuerant, sed ex descriptione servatâ procul dubio ad *S. cæspitosam* referenda et omnia ad var. α . supra citatam.

165. *MITELLA NUDA*, Gmel. Sibir. iv. t. 68. fig. 1. Willd. ii. p. 660. *M. reniformis*. Pursh. i. p. 314. *M. prostrata*. Mich. Am. p. 270. Pursh. i. p. 314. (W.)

166. *SILENE ACAULIS*, Willd. ii. p. 709. Pursh. i. p. 316. (B.)

167. *STELLARIA LONGIFOLIA*, (Muhlenberg) De Cand. prodr. i. p. 400. fide specimenibus D. Boott prope Boston lectis. *Spergulastrum lanceolatum*, Mich. Am. i. p. 275. *D. C. Prodr.* i. p. 421. *Micropetalum lanceolatum*, Persoon. Ench. i. p. 509. teste D. Boott. *Stellaria graminea*, Frankl. App. i. ed. No. 165. *Spergulastrum gramineum* (Mich. l. c.) fortassin etiam huc referendum? (W.)

Caulis debiles, graciles, filiformes, glabri, acutè quadrangulares, angulis tactui et sub lente scabris, sæpe torti, fragiles filo centrali tenaciore, ramosi. *Internodia* inæva brevia, marcescentia, superiora sæpe bi vel tri-pollicaria, ad insertiones foliorum non incrassata. *Rami* gracillimi, elongati, floriferi, axillares, sæpius bini oppositi. *Folia* plana, opaca, glaberrima, opposita, sessilia, basi sub-connata paulo attenuata, acuta, nervo subtus prominente percursa, margine subcartilagineo sub lente scabriusculo: *caulina* inferiora breviora, latiora, lanceolata: superiora linearia quò altiora eò longiora, angustiora, interdum sesquipollicaria et vix lineam lata; *ramea* angustissima. *Inflorescentia* ei *St. gramineæ* similima, panicula irregularis ramosa dici meretur, et sequenti modo visa terminalis, aliter ex innovationibus axillaribus et lateralibus. *Pedunculus* solitarius, longus (sæpe palmaris) ramo oppositus vel intra ramos duos oriens, caulem quasi terminans et formam ejus et crassitudinem tenens divisus est in ramos duos vel tres, graciliores, patentes, diversæ altitudinis, circiter 5-flores, et similiter decompositos, divisuris singulis bibracteatis, medioque flore solitario præcioriore. *Bractea* parva, sub-connata, lineari-lanceolata, acuminata, linea dorsali virido subcarinata margine membranaceo albo. *Pedicelli* sub anthesin producti, erecti pollicares, filiformes, glabri, teretes, vix sub lente striati. *Calyx* glaberrimus, laciniiis 5 lanceolatis, sensim acuminatis, acutis, trinerviis, nervo medio evidentiore percurrenti, duobus lateralibus brevioribus, margine membranaceo albescente angusto. *Petala* hypogyna, bipartita, calyce longiora, laciniiis basi attenuatis, angustis, linearibus, obtusis, tri-vel triplinerviis. *Stamina* filamentis albis, filiformibus, glaberrimis, alternis longioribus petalis paulo brevioribus; antheris subrotundis, purpurascensibus, polline flavo. *Styli* 4, filiformes, longitudine

ovariorum, ad basin distincti, stigmatibus obtusis, fere capitatis, reclinatis. *Ovarium* sessile, subrotundum, glabrum, uniloculare, polyspermum. *Capsula* (paucæ nondum maturæ quas examini subjeci) semi-octo-valves, calyce duplo breviores. *Receptaculum* seminum centrale, capsulâ brevius. *Semina* circiter 12, subrotunda, compressa, fusca, funiculis umbilicalibus crassis cum receptaculo communi persistentibus.

Flores magnitudine *Stellaria uliginosa* (Smith.) que quoque non raro tetragyna.

168. *STELLARIA STRICTA*, foliis subulatis canaliculatis erectis lævibus internodia tetragona lævia superantibus, panicula terminalis, pedunculis glabris petalis linearibus bipartitis calyce glabro acutissimo prominente trinervi longioribus. *St. palustris*, *β*, *Frankl. App.* 1 ed. No. 164, exclus. syn. (W.)

α. *Heeba dolrantaalis*. *Caules* tetragoni, angulis lævibus, internodiis invicem aequalibus circiter sesqui-unguicularibus, imis interdum brevioribus, et basibus marcescentibus, ascendentibus, ramosi, villis laxis vestiti. *Rami* stricti, sub-fastigiati. *Folia* subulata vel et basibus connatis amplexicaulibus sensim acuminata, acutissima (par unum vel alterum inferius solum lanceolatum, internodio brevius,) firma, erecta, ævenia, supra canaliculata, sultus nervo levi prominente varinata, marginibus (sub lente) sub-eariaginis lævibus, basibus villis laxis ciliatis, nitida, et siccitate veluti ex soluto epidermide, striata. *Flores* terminales, erecti, facie fere speciei precedentis (No. 167.) sed paulo majores et snilli mole paniculati. *Pedunculi* interdum solitarii, plerumque bini quorum alter præcoior. *Pedicelli* sub anthesi, sesquiplicares, filiformes, glaberrimi. *Bractea* ad divisuras singulas binæ, connatæ, lanceolatae acutæ, nervo prominenti viridi carinate marginibus membranaceis albis superiores omnino scariosæ. *Calyx* glaberrimus, laciniis lanceolatis, acutissimis, nervis tribus prominulis sub apice confluentibus, margine albo membranaceo. *Petala* calyce tertia parte longiora, bipartita, laciniis linearibus obtusis. *Stamina* petalis breviora, filamentis subulatis glabris, 5 longioribus petalis alternantibus singulis cum glandulis binis basi adnatis vel potius innatis, antheris ovalibus, purpurascenti-fuscis. *Ovarium* glabrum plerumque trigynum, sæpe tamen tetragynum, ovato-oblongum, polyspermum (seminulis 30 pluribus). *Styli* filiformes obtusæ. *Capsula* maturæ desiderantur.

In floribus monullis tetragynis, quibus capsula semi-maturæ, petala calyce breviora erant et stamina breviora antheris polline destitutis, seminula lævia, reniformia sinu angustiora.

β. (*St. palustris*, *Frankl. App.* 1 ed. No. 164, var. α. exclus. synonym.) caule glabro nodis paulo incrassatis, foliis longioribus nitidis vix tamen glaucis, stigmatibus sæpius contortis. (W.)

Obs. *St. glauca* (Smith), cum quâ var. hæc α. in edit. priori confusa erat, omnino diversa est, colore glauco, statura majori, foliis duplo majoribus, inflorescentia dissimili, pedunculo sæpius solitario axillari et minus paniculato et petalis et stylis longioribus nihilominus formâ et nervis calycis antherum convenientibus et figurâ foliorum non longè discrepanti character speciei illi libris ascriptus stirpem nostram vix excludit. Pariterque *St. Læmanni* (D.C. prodr. 1. p. 397. No. 21.) nobis non visa, characteribus pluribus plantæ nostræ gaudere videtur. *St. longifolia* (No. 167) cui flores simillimi diversa est habitu, foliis et angulis caulis scabris.

Etsi *St. stricta* non nobis ultra lat. 57° observata fuit, D. Hooker specimen a Groenlandia habet, statura minori tantum diversa.

169. S. EDWARDSII, *Brown. Suppl. Parry's Voy.* clxxii. and cccviii., No. 18. (B.)

α. *Brown, l. c.* ? (B.)

Nam mihi sunt exemplaria hujus varietatis auctore determinata cum quibus comparationem instituerim.*

* Having been called upon rather unexpectedly to prepare a second edition of the Botanical Appendix.

tamen inter specimina pauca mea quæ mihi restant (plura in herbaria varia publica distributa) unum vel alterum characteribus hujus var. l. c. datis gaudet. Antheræ purpureæ calycem superant. Styli 3.

β. *Brown, l. c.?* (B.)

Exemplar unicum quod varietati huic pertinere videtur tetragynum est, sed in aliis cum exemplaribus a D. Edwards benignè communicatis quadrat. Antheræ purpureæ sunt et perfectæ.

γ. *S. Edwardsii, Frankl. App. 1 ed. No. 163. p. 738. Brown, l. c. in adnotis.* (B.)

Caules perennes, flores ferentes dum capsulæ seminiferæ anni præteriti adhuc persistent, ramosi, inferne marcescentes, tertiusculi, superne obtusè tetragoni, glaberrimi, nitidi, decumbentes, bi-pollicares et ultra. *Rami* pollicares sub-erecti, dense foliati, floriferi. *Folia* ovato-lanceolata, lanceolatave, apice attenuata, acuta, internodia unguicularia plerumque superantia, glaberrima firma, nitida, subtus nervo prominente carinata, supra planiuscula, vel tantum sulco læviter impressa, siccitate quasi ex epidermide soluto, striata, rugosave. *Flores* terminales erecti. *Pedunculi* solitarii vel bifidi, dum solitarii ebracteati, dum divisi bibracteati, bracteis semifoliaceis, margine membranaceo angustissimo: pedicello laterali pariterque infra medium bibracteato. *Pedicelli* sub anthesis pollicares, striati, glabri: fructiferi non longius producti. *Flores* erecti magnitudine speciei præcedentis (No. 168). *Calyx* glaberrimus, lacinii ovatis, apice attenuatis acutis, dorso viridi, nervis tribus vix prominulis, margine albo membranaceo. *Petala* bipartita, calyce vix duplo longiora, lacinii lanceolatis. *Stamina*, filamentis brevissimis (calyce triplo quadruplove brevioribus) antheris minimis albis, polline destitutis. *Styli* 3 clavati, ovario ferè duplò longiores, stigmatibus villosiusculis, obtusis. *Ovarium* ovatum, receptaculo seminum centrali primò apice capsulæ connexo, seminulis subtrigintis. *Capsulæ* maturæ fere ovales, castaneæ nitidæ, calyce tertia parte longiores semi-sexvalves valvis lanceolatis, obtusiusculis. *Semina* matura pauca, compresso-sub-globosa, sinu parvo acuto, lævia, fusca; funiculis umbilicalibus, ^{centralibus} receptaculo centrali in fundo capsulæ persistentibus, seminulis plurimis abortivis.

Hæ tres varietates ad ripas fluminis *Coppermine* cum stirpe sequenti (No. 170) simul habitantes inveni.

Obs. *S. stricta* (No. 168) ab omnibus his varietatibus differt statura majori, habitu stricto, foliis minus crassis, angustioribus, longioribus, et hinc faciè diversâ, inflorescentia sub-paniculata, lacinii calycinis angustioribus, magis acutis, nervis manifestioribus, margine albo proportionatim latiori, petalis linearibus, glandulis ad basin staminum manifestis, &c., sed extant specimina quasi intermedia dubiæ speciei, et faciliè cum illis qui *S. Edwardsii* formam nanam hyperboream *S. strictæ* existimant consentiverim. Si res sic habuerit nomen prius *S. Edwardsii* servari debetur. Comparatio fructuum adhuc desideratur.

170. *S. LÆTA*, glauca, foliis lanceolatis acutis carinatis lævibus, pedunculis longis unifloris sub-geminis terminalibus, sepalis ovatis acutis villosiusculis obsolete triner-vibus capsulis et petalis vix brevioribus. *Frankl. App. 1 ed. No. 162. char. emend.* (B.)

Caules decumbentes, graciles, filiformes, inferne purpurascens, marcescentes, ramosi. *Rami* palmares debiles sed ex mutuâ pressionè erecti, sub fastigiati, uni vel biflori. *Folia* unguicularia, inferiora breviora lanceolata utrinque acuta; superiora magis linearia sensim acuminata, longitudine circiter internodiorum: omnia cum caule et pedunculis glaberrima. *Pedunculi* terminales, erecti fere sesquipollicares, filiformes, gracillimi solitarii vel bini, dum solitarii plerumque nudi, dum bini unus nudus, alter infra medium bibracteatus, bracteis foliaceis, concavis lanceolatis, acuminatis, acutis, margine albo, interdum vix conspicuo. *Calyx*, sepalis dorso pube tenui villosa, margine albo. *Petala* calyce paulo longiora, bipartita, lacinii linearibus obtusis.

I have to regret that the absence of Mr. Brown from England has deprived me of the assistance which his uniform kindness and condescension would have induced me to rely upon, and which would have rendered this paper more worthy the attention of botanists.—J. R.

Obs. Species forsan var. β precedentis nimis affinis sed colore lacto, glaucis, calyce villosiusculo, et habitu gentilliori varietas saltem notabilis existimari delectur. D. Hooker sub. *S. nitida* (Scorresby's Voy. to Greenland, p. 411) nostram *S.* lactam inclusit et revera species vel varietates tres, No. 168, 169, 170, hic descriptas, sub descriptione *S. nitida* illico dato facile comprehendende sunt. Nomen prius est ceteris *S. nitida*.

171. *St. GRACILIS*, glaberrima, caule debili, ramis sterilibus gemmâ foliorum terminatis, foliis lanceolatis, flore solitario sub-terminali, sepalis glabris acutis petalis paulo brevioribus. (W.)

Caulis dorsalis filiformis acute tetragonus superne ramosus. *Folia* lanceolata acuta integerrima nervia; *caulinis* longitudine trilinearia internodiis duplo brevioribus; *ramis* caulinis multo minoribus. *Pedunculus* filiformis ex axillis superioribus. *Lacinie calycine* (*Sepala*) ovate acute glabra trinerves, marginibus. *Petala* bipartita calyce vix longiora, lacinis lanceolatis obtusis, inferne attenuatis. *Ovarium* fere globosum stigmatibus tribus.

172. *St. HUMIFUSA*, D. C. *prodr.* 398, No. 32? *Stellaria crassifolia*, β . *minor* subrepens, Wahl. *fl. Lapp.* p. 124. (B.)

Planta tota glaberrima, pumila, præter flores arenâ fere obdecta. *Caules* diffusi, implexi, teretiusculi, inferne sphacelati. *Folia* sessilia, elliptica, acuta, crassiuscula, nervo medio transparenti sed nullis venis. *Pedunculus* solitarius, axillaris, internodium caulis proximè superjacens longitudine et crassitudine æquans. *Calycis* lacinis lanceolatis, obtusis, nervo medio solitario obsolete transparenti, marginibus albis membranaceis. *Petala* alba, patentia, bipartita, lacinis obtusis, calyce duplo longiora. Flus respectu magnitudinis stirpis magnus.

Obs. This plant was collected on the beach of Bathurst's Inlet of the Arctic Sea, but the specimens were in the collection that was afterwards lost. The above description, taken upon the spot from the live plant, differs but little from Wahlberg's here quoted.

173. *ARENARIA PROPINQUA*, cespitosa glanduloso-pilosa, foliis lineari-subulatis acutis trinerviis, calyce acuto trinervi petalis vix longiori capsulâ breviori. (B.)

Radix perennis, gracilis, teres, longa, apice ramosa, flavescent, multinalla. *Caules* basi ascendentes, palmares, ramosi, internodiis quò vetustioribus eò brevioribus et magis ad insertiones foliorum incrassatis, superioribus filiformibus sœpius-ungularibus. *Folia* opposita, basibus angustis margine membranaceo-cinnatis, internodiis superioribus plus duplo breviora, nervis tribus validis. *Folia*, caules, pedunculi et calyces pilis brevissimis patentissimis glanduliferis vestiti. *Panicula* circiter quadriflora, terminalis. *Lacinie calycine* lanceolatas acute trinerves, nervis validis æqualibus, margine lato membranaceo, albo. *Petala* alba ovata vel ovalia obtusa. *Capsula* trivalvis, apicibus reflexis plerumque fissis. *Habitus Arenaria* *terreæ* sed flores duplo minores.

174. *A. ROSSII*, Brown. *Supp. Parry's Voy.* cclxxii. No. 20.

a. Brown, l. c. nobis non visa.

β . *A. ROSSII*, Frankl. *App.* 1 ed. p. 738. No. 170. Brown, l. c. in *adnotis*, ab α paulo diversa est (verbis cl. Brown.) "statura majore, foliis calycem longitudine superantibus, minus crassis nec adeo obtusis, internodio sæpius brevioribus, calycis foliolis duobus exterioribus parum brevioribus, nervis lateralibus omnium manifestioribus, petalis longitudine calycis." (B.)

Perennis, fastigiatissimo-ramosissima, dense foliosa, glabra. *Folia* subulata, basilis cœnatis amplexicauda, basi nervo medio prominenti carinata. *Pedunculi* solitarii, terminales, elongati, suffloei. *Calycis* acutis

extus sæpius purpurascens, nervis tribus, lateralibus, nervo medio subæqualibus. *Petala* ligulata apice rotundata calycem vix superantia. *Styli* tres breves, filiformes obtusi, stigmatibus non manifestis. *Capsula* trivalvis calycem æquans. Suture valvularum in capsulis immaturis etiam sub lente inconspicue.

175. *A. PEPLOIDES*, Willd. ii. p. 716. Pursh. i. p. 317. (W.B.)

176. *A. LATERIFLORA*, Willd. ii. p. 718. Pursh. i. p. 317. (W.)

177. *LYCHNIS APETALA*, Willd. ii. p. 810. Brown. Supp. Parry's Voy. 270. No. 16. (B.)

178. *CERASTIUM VISCOSUM*, Smith. Engl. Fl. ii. p. 330. D. C. prodr. i. 416. No. 14. (W.)

This plant having been found only in the neighbourhood of the trading posts has been perhaps introduced.

179. *C. PUBESCENS*, Goldie Ed. Ph. Journ. vi. p. 327. *C. arvense*, Frankl. App. i ed. No. 173. p. 738. excl. synon. (W.)

180. *C. NUTANS*, D. C. prodr. i. p. 420. *C. glutinosum* (non Humboldt.) Nuttall. Am. Gen. i. p. 291. fide Nutt. ipso. *C. viscosum*, Frankl. App. i ed. No. 172. p. 738. (W.B.)
 Planta nostra palmaris, rarius spithamea, facie *C. alpinæ* non longè aliena, sed ex visciditate sæpius sordida, ad ostium fl. Coppermine lecta erat. *Folia* caulina vix semuncialia, oblonga, lanceolata nunc obtusa, nunc acuta, semper puncto calloso magis aut minus manifestè apiculata, cum caulibus striatis, pedunculis, bracteis et calycibus pilis laxis viscidis vestita: margines foliorum pilis crebrioribus ciliati sunt. *Panicula* dichotoma, elongato-pedunculata, cum flore solitario pedunculo in dichotomiâ, foliolis binis, ovatis, acutis, viridibus fulcratâ. *Pedunculi* laterales pariterque circiter medium (nempe ubi flos alter abortit), bibracteati, bracteis parvis viridibus lanceolatis acutis. *Pedicelli* fructiferi semunciales et ultra. *Capsula* cylindrica, basi ovata, vix sursum curva, dentibus decem mediocribus, marginibus revolutis, calyce duplo longior, plerumque horizontalis rarius pendula. *Semina* brunnea rotundato-sub-pyriformia, verrucosa. Descriptio Nutt. l. c. in cæteris quadrat.

181. *C. ALPINUM*, Willd. ii. p. 814. Brown. Supp. Parry's Voy. cclxxi. No. 17. (B.)

Specimens of this plant and of a very similar one, differing in a more rigid pubescence, which at the time we referred to *C. latifolium* L. gathered on the shores of the Arctic Sea, were in the collection that was lost.

182. *SPERGULA NODOSA*, Willd. ii. p. 818. (W.)

DODECANDRIA.

183. *HUDSONIA ERICOIDES*, Willd. ii. p. 858. Pursh. ii. p. 364. (W.)

ICOSANDRIA.

184. *PRUNUS VIRGINIANA*, Willd. ii. p. 985. Pursh. i. p. 329. (W.)

The tawquoy-meen-ahick of the Crees is a handsome small tree, rising on the sandy plains of the Saskatchewan to the height of twenty feet, but extending as far north as Great Slave Lake, where it attains the height of five feet only. Its fruit, termed Tawquoymeena, or Choke-cherry, is not very edible in a recent state, but when dried and bruised, forms an esteemed addition to pemmican.

185. *P. PENSYLVANICA*, Willd. ii. p. 992. Pursh. i. p. 331. Passeceaway-meenan, Cree Lang. (W.)

186. *SORBUS AMERICANA*, Pursh. i. p. 341. (W.)

187. *ARONIA OVATIS*, Pers. *Ench.* ii. p. 40. *Pyrus ovalis*, Pursh. i. p. 340. (W.)

This shrub is common as far north as lat. 62°. It abounds on the sandy plains of the Saskatchewan. Its wood, named by the Crees *meessassquat-ahtick*, is prized for making arrows and pipe stems, and is thence termed by the Canadian voyageurs *buis de fleche*. Its berries, about the size of a pea, are the finest fruit in the country, and are used by the Crees under the name of *Meessasscootoom-meema*, both in a fresh and dried state. They form a pleasant addition to pemmican, and make excellent puddings, very little inferior to plum-puddings.

188. *SPIRÆA SALICIFOLIA*, Willd. ii. p. 1055. *Pursh.* i. p. 341. (W.)

189. *ROSA BLANDA*, Willd. ii. p. 1065. *Pursh.* i. p. 344. *Oggancee-ahtick*, Cree Lang. (W.)

190. *REBIS STRIGOSUS*, Mich. Am. i. p. 297. *Pursh.* i. p. 340, fide Herb. Lamb. *R. idaeus* β. *Canadensis*, Frankl. *App.* i ed. No. 182, p. 739. excl. syn. (W.)

Caulis fuscus, sub-teretes, setis parvis, rigidis, crebris. *Stipulae* filiformes basilis brevissimè petioli adnatae. *Pedunculi* striati setis glanduliferis obsiti, rarissimè aculeis minutis, sparsis. Minus clarè Cel. Pursh. dixit "floribus in apice ramulorum axillaribus solitariis." *Flores* revera in paniculam terminalem, foliosam, paucifloram (4-6) congesti, pedicellis sæpè bifloris, flore tamen solitario pedunculato, axillari ad basin pedunculi.

Flowers larger than those of *R. idaeus*. Our plant agrees with specimens collected by Mr. Menzies on the N. W. coast of America.

191. *R. OCCIDENTALIS*, Mich. Am. i. p. 297. *Pursh.* i. p. 347. fide Herb. Lamb. (W.)

Obs. *Flores* præcedentis et figura foliorum vix aliena, sed ramuli et pedunculi purpureo-glauco, glabri.

192. *R. TRIFLORUS*, inermis, caulibus erectis herbaceis, flagellis suffruticosis cauliferis, foliis ternatis acutè serratis, stipulis obovatis, paniculâ sub-triflorâ glandulosâ. *R. saxatilis* β *Canadensis*, Frankl. *App.* i ed. No. 183, p. 739. (W.)

Radix lignosa, dura, valde flexuosa, nigrescens. *Flagelli* procumbentes, teretes, longissimi, crassitie penna columbina, puberuli, sæpè purpurascens, ad intervalla bipollicaria caulis alternatim proferentes. *Caulis* herbaceus, erectus, ex summo radice et e flagellis orientes, basi squamis (stipulis) membranaceis, vel fuscis vel viridibus amplexicaulis oblectatis. *Folia* singulis caulibus 2-4, alterna, ternata, elongato-petiolata. *Stipulae* magnæ ob-ovatae, nunc obtusæ, sæpius acuminæ brevî, basi attenuatæ. *Petidi* filiformes antice sulcati, plerumque foliolum impar longitudine superantes, primo glandulis pedicellatis mox deciduis ciliati. *Foliodi* sub-duplicato-serrata, pallide cærentia, subulis pallidiora; impar petiolatum, plerumque ovali-sub-rhomboidem, utrinque sensim acuminatam, acutum, rarissimè obovatum et obtusum, semper basi attenuato integerrimo; lateralia sub-sessilia, inæqualia, sæpius extus incisim lobata. *Pubescentia* caulis, petiolorum, foliorum et stipularum laxa, breviuscula, magis aut minus rara et in foliis sæpè fere obsoleta. *Flores* erecti, terminales, rarè axillares et terminales 2-4, (plerumque 3,) paniculati. *Pedunculi* unguiculares, stricti, singuli foliodi caulibus confertè, vel tantum stipulis foliâ abortivè suffulti, plerumque elractati, laterales tamen interdum rudimentis foliâ ut videtur ubi flos alter abortivit uni-vel bi-bracteati. *Calyp* basi 12-costato-areolatus, 5-6-fidus, extus cum pedunculis pulè brevî acutè villosus, et glandulis minutis, pedicellatis, deciduis obtusis; latius sensim elongato-acuminatis intus versus apicem tantum pubescentibus, sub-anthesi reflexis, mox erectis. *Petala* 5-6, alba, ovalia, obtusa, passim emarginata, ungue lato, brevî, calyce paulo altiora.

Obs. R. varietalis L. in multis cum præcedenti quadrat at diversa videtur flagellis sterilibus, modis aut foliâ tantum ferendis nec nisi ad apicem radicantes anno secundo caulis emittentibus, aculeis quavis rara vix unquam nullis, floribus minoribus et calycibus pedunculique eglandulosis.

193. *R. PROPINQUUS*, inermis, caulibus erectis herbaceis, flagellis suffruticosis cau-

liferis, foliis ternatis grossè et obtusè serratis, stipulis oblongis, panicula biflora eglan-
dulosa, petalis ellipticis calyce duplo altioribus. (W.)

Habitus omninò præcedentis (No. 192) et cum illo in plurimis conveniens, at foliola latiora, breviora, serraturis latioribus et ferè rotundatis, puncto glandulosò nihilominus apiculatis ut in affinis; foliolum impar sæpius subsessile. Flores quoque duplo majores, rosei, floribus minoribus *R. pistillati* (Smith) simillimi.

Obs. Ad species duas hic propositas stabiliendas descriptio fructuum desideratur.

194. *R. PISTILLATUS*, *Smith. Exot. Bot.* ii. p. 53, t. 86. *Pursh.* i. p. 349. (W.)

195. *R. CHAMÆMORUS*, *Willd.* ii. p. 1090. *Pursh.* i. p. 349. (W.B.)

196. *FRAGARIA CANADENSIS*, *Mich. An.* i. p. 299. *Otei-meena* (Heartberry), *Cree Ind.* (W.)

197. *POTENTILLA FRUTICOSA*, *Willd.* ii. p. 1094. *Pursh.* i. p. 355. (W.B.)

198. *P. PENNSYLVANICA*, *Willd.* ii. p. 1099. *Pursh.* i. p. 356. (W.)

199. *P. ARGUTA*, *Pursh.* ii. 736. fide exempl. *Bradbury.* (W.)

Caules plures, 3-pedales, erecti, simpliciusculi, superne ramos floriferos, breves, axillares ferentes, lævis-
simè striati, uti et petioli, calyces et pedunculi pilis albis, teneris, laxis, glanduliferis villosi. *Rami* floriferi
pauci, e partè caulis superiori, singuli folio ternato stipulato subtensi. *Folia* impari-pinnata, elongato-
petiolata, stipulis integris semi-cordatis adnatis. *Foliola* alterna, per paria approximata, sæpius tri-juga,
profundè et inæqualiter duplicato-serrata, serraturis acutis apicibus fusco-rubris; terna ultima elliptica,
basi attenuata; cætera ovata, inæquilateralia par inferius multo minora. *Flores* erecti, primo in corymbo
denso congesti, mox paniculati. *Panicula* ter quaterve vel amplius dichotoma, cum flore solitario pedun-
culato in dichotomiâ. *Calyx*, laciniis 5 alternis lanceolatis minoribus. *Petala* alba, siccitate flavescentia,
subrotunda, ungue citrino. *Styli* lanceolati, nudi.

Obs. Geum agrimonioides, *Pursh.* i. p. 354, forsân hujus varietas est, foliolisternis ultimis sub-rotundis,
proportionatim minoribus. Character specificus *P. argutæ* *Lehm. mon.* p. 62, a nostra planta omnino dis-
crepat et potius ad *P. pensylvanicam* recipiendam confectus fuisse videtur.

200. *P. NORWEGICA*, *Willd.* ii. p. 1109. *Pursh.* i. p. 354. (W.)

201. *P. ANSERINA*, *Willd.* ii. p. 1095. *Pursh.* i. p. 356. (W.)

202. *P. CONCINNA*, foliis septenatis quinatisque; foliolis ovali-obovatis subtus niveo-
tomentosis: apicibus serratis, caule abbreviato. (W.)

Caules plures bi-pollicares diffusi, uti et petioli et pedunculi sericeo-argentei. *Folia* radicalia 7-vel qui-
nata, petiolis sericeis ex basibus brunneis membranaceis 5-nervosis orientibus: stipulæ adnata, membra-
naceæ lanceolatæ acuminatè integerrimæ, dorso et apice pilosis. *Foliola* sessilia ovali-obovata interdum
fere truncata, ad apicem inæqualiter serrata; supra flavescenti-viridia, pilis adpressis subsericeis densè
obtectæ, subtus pulchrè niveo-tomentosa, ad margines pilis mollibus exsertis hirsuta; exteriora minora.
Folium unicum prope basin caulis sæpius ternatum. Adsunt quoque ad originem pedunculorum foliola duo
opposita simplicissima serica stipulis insidentia. *Pedunculi* 2-3, unguiculares, ascendentes, dum terni
laterales medio bibracteati, tertius nudus. *Calyces* villosi, laciniis exterioribus brevioribus linearibus
acutis; interioribus triplo latioribus semi-ovatis acuminatis corollam vix æquantibus. *Petala* flavissima
latè obcordata. *Germine* levia, receptaculo hirsuto. *Stirps* pulchra. *P. humifusum* *Nuttallii* non vidi,
sed à plantâ nostrâ diversa videtur propter caules flagellatos et non foliosos.

203. *P. NIVEA*, *Willd.* ii. p. 1109. *Pursh.* i. p. 353. *Brown. Supp. Parry's Voy.*
cclxxvii. (B.)

204. *P. HIRSAUTA*, *Nestl. Monogr.* p. 67. t. 9. *P. monspeliensis*, *Willd.* ii. p. 1109. (W.)

205. *P. TRIDENTATA*, *Willd.* ii. p. 1110. *Pursh.* i. p. 353. (W.)

206. *P. BIFLORA*, *Lehman. mon.* p. 192. No. 88. t. 20. (B.)

Humilis, densè caespitosa. Radix subligiosa, descendens attenuata multiceps. *Caulices* brevissimi reliquis petiolorum scariosis castaneis cooperti. *Folia* radicalia petiolata, ternata, juniora ferè sericeo-villosa, mox glabrescunt. *Stipulae* petiolares, membranaceae, subulatae, villosae. *Folia* sessilia, basi attenuata, lateralibus basin bi-partita, foliolum impar tripartitum, laciniae omnibus conformibus, linearibus, utrinque acutis, marginibus revolutis ciliatis, super gramineo-viridibus, subter glaucescentibus, nervo mediò valido percursis, apice rubris. Pubescentia plantae maturae rara laxa, in scapo, pedunculo et calyce præcipuè obvia. *Scapi* bipollicares extra medium foliis duobus alternis, approximatis, sessilibus plerumque ternatis et stipulatis muniti. *Flos* erectus plerumque solitarius saepe tamen flores duo terminales, pedicellis brevibus villosis characteratis. *Calyx* basi villosus laciniae exterioribus linearibus, marginibus revolutis, utrinque rotundatis subtusque glaucis; interioribus exterioribus longitudine aequalibus, duplo latioribus, ovatis acuminatis, planiusculis. *Petala* calyce duplo grandiora, obo cordata, citrino-flava ad unguem maculâ aurantio-flavâ ornata. *Styli* flavi subulati, curvi, staminibus breviores. *Receptaculum* dense villosum, germiubus rugulosis.

207. *SIEVERSIA TRIFLORA*, *Brown. Supp. Parry's Voy.* 276. in adnotis. *Geum triflorum* *Pursh.* ii. p. 736, fide exempl. Bradbury. *Frankl. App.* i ed. No. 197. p. 740. (W.)

208. *GEUM STRICTUM*, *Willd.* ii. p. 1113. *Pursh.* i. p. 351. (W.)

209. *GEUM OCTOPETALA*, *Pursh.* p. 350. *D. chamadrifolia*, *Pers. ench.* ii. p. 57. (W.)

210. *D. INTEGRIFOLIA*, *Vahl. act. hafn.* iv. par. 2. p. 171. *Brown. Supp. Parry's Voy.* 275. *Russ. Voy.* ed. ii. Vol. 2. p. 193. *D. tenella*, *Pursh.* i. p. 350. (W.)

211. *COMARUM PALUSTRE*, *Willd.* ii. p. 1119. *Pursh.* i. p. 357. (W.B.)

POLYANDRIA.

212. *ACTEA BRACHYPETALA*, *Decand. Syst.* i. p. 385. *A. Americana*, *Pursh.* ii. p. 366. (W.)

213. *PAPAVER NUDICAULE*, *Willd.* ii. p. 1145. *Pursh.* ii. p. 365. *Brown. Supp. Parry's Voy.* cclxy. (B.)

214. *SARRACENIA PURPUREA*, *Willd.* ii. p. 1150. *Pursh.* ii. p. 367. (W.)

215. *NOFAR LUTEA*, *Pursh.* i. p. 369. (W.)

216. *AQUILEGIA VULGARIS*, *Willd.* ii. p. 1245? (W.)

217. *THALICTRUM CORYNELLEUM*, *Decand. Syst.* i. p. 1172? *Th. Cornuti* : *Pursh.* ii. p. 388? (W.)

218. *ANEMONE NETTALLIANA*, *Decand. Syst.* i. p. 193. *A. Ludoviciana* : *Nutt. Am.* ii. p. 20. (W.)

219. *A. PARVIPLORA*, *Decand. Syst.* i. p. 200. *Mich. Am.* i. p. 319. *A. cuneifolia*, *Pursh.* i. p. 386. *A. tenella Banks. herb.* (W.B.)

220. *A. RICHARDSONII*, foliis sub-reniformibus profunde trilobatis; lobis latè

cuneatis 3-5-fidis dentatis, involucris latè obovatis vix petiolatis trilobis; lobis ovatis tridentatis, sepalis 6-7 ovatis. *Hooker. Syst. of Plants. ined.* A. ranunculoides, var. ? *Frankl. App.* 1 ed. No. 210. p. 740. (B.)

Folia radicalia, petiolata, super glaberrima, pilis rarissimis ciliata et subter induta, circumscriptione reniformi-orbiculata, posticè sinu profundo rotundato, palmatim 3-vel 5-loba, lobis cuneiformibus patentibus ad apices inæqualiter grossèque inciso-dentatis, dente centrali lato, rotundato, dentibus omnibus glandulâ brunneâ apiculatis. *Petiolus* diametrum paginæ pollicare æquans, pilisque patentissimis pubescens. *Scapus* erectus, pube ut in petiolis sed supra involucrum densiore. *Involucrum* subsessile, pedunculo multò brevius, foliolis tribus latè obovatis basi vix in petiolis attenuatis, quorum duo plerumque latiora sunt et trifida, tertium simplicius, omnia ad apices inciso-dentata. *Flores* saturate flavi, A. ranunculoidei simillimi. *Petala* (sepala) 6 elliptico-ovata, acutiuscula, supra glaberrima, venis parallelis subramosis, subtus nitentia sed sub lentè pila rara ostendentia. *Stamina* petalis triplo breviora. *Germina* glabra, ovata, sursum in stylum longiusculum acuminata.

Hab. On the Copper Mountains (lat. 67°), on barren declivities.

Obs. Stirps magis meridionalis, et in regione sylvaticâ prope York Factory crescens variat staturâ majori, involucris sub-acuminatis et minus ab A. ranunculoide discedit.

221. A. BOREALIS, foliis ternatis; foliolis cuneiformi-rotundatis crenatis incisive: involucralibus 3-4 amplexicaulibus trifidis; laciniis obovatis 3-dentatis, petalis 6 obovatis. (B.)

Radix fibroso-fasciculata, fuscescens.—*Folia radicalia*, petiolata, ternata, glaberrima, foliolis sessilibus, cuneiformi-rotundatis, inæqualiter crenatis aut etiam inciso-dentatis. *Petiolus* tener debilisque pollicaris, interdum prope laminam folii pilis paucis mollibus indutus. *Scapus* palmaris, uniflorus, infra involucrum, laxè, supra densè villosus. *Involucrum* foliaceum amplexicaule, subtus pilosum et ad basin villosum, profundè 3-vel 4-partitum, segmentis trifidis, laciniis linearì-obovatis, integerrimis aut cuneiformibus et apice obtusissime, 3-dentatis. *Flos* albidus, extus in junioribus præcipue ad basin cærulescens. *Petala* 6 unguicularia, obovata, obtusissima, plerumque emarginata, juniora extus pube brevi, lanatâ, induta: in maturioribus pili adpressi tantum adsunt. *Stamina* permulta, petalis triplo breviora. *Germina* pilosa.

222. A. HUDSONIANA, foliis radicalibus multipartitis; segmentis bis palmatim sectis: laciniis linearibus; involucris ternatim decompositis breviter petiolatis, pedunculis binis, petalis 5-8 ovatis acutiusculis. (W.)

A. multifida β. Hudsoniana. *Decand. Syst.* i. p. 209.

Herba fere cubitalis, erecta, pilis albis mollibus longiusculis undique munita. *Folia radicalia* petiolata, caule duplo breviora, tripartita: segmenta basi attenuata, lateralia bipartita, omnia bis palmatim secta: laciniis ultimis linearì-lanceolatis. *Involucrum* trifolium, foliis modo radicalium ternatim decompositis et in petiolos latos breves attenuatis. *Pedunculi* spithamæi, pube brevi densius tecti, plerumque bini, quorum unus præcocior nudus, alter involucellum bifolium trifidum medio gerens. *Flores* parvi, intus melleo-flavi, extus ad basin paulo fuscrescentes. *Petala* 5-9, ovata, acutiuscula, extus villosa. *Stamina* petalis plus duplo breviora. *Germina* hirsuta, stylo persistente, recto, glabro mucronata, in capitulum ovatum densè aggregata: matura lanâ involuta quâ dispersa sunt.

β. sanguinea, An. sanguinea: *Pursh. ined. in Herbario Lambert.* (W.)

A precedenti differt statura graciliori, floribusque minoribus saturate sanguineis.

223. A. PENSYLVANICA, *Decand. Syst.* i. p. 209. A. aconitifolia. *Mich. Fl. Am.* i. p. 320. (W.)

224. RANUNCULUS FLAMMULA, var. ? *Decand. Syst.* i. p. 247. (W.)

225. *R. CYMBALARIA*, *Pursh*, i. p. 392. Var. β . *Decand. Syst.* i. p. 252. (W.)

β . minima, foliis plerumque 3-dentatis, flagellis paucis vel nullis. (W.)

226. *R. RHOMBOTIDES*, *Goldie Edin. Phil. Journ.* v. p. 329. t. xi. f. 1. *R. ovalifolius*. *Pursh inedit. in Herbario Lambert.* (W.)

227. *R. AFFINIS*, "foliis radicalibus pedato-multifidis petiolatis; caulinis sub-sessilibus digitatis; lobis omnium linearibus, caule erecto 1-2-floro cum calyceibus ovarisque pubescentibus, fructibus oblongo-cylindraceis, acheniis rostro recurvo." *Brown. Suppl. Parry's Voy.* 265. No. 4. *R. arcticus*, *Frankl. Append.* 1 ed. No. 217. p. 741. (B.)

Radix fibrosa. *Caulis* simplicissimus, pedalis, erectus, (in exemplaribus nostris), unilorus, foliis tribus remotis minutus et supra folium summum pilis albis villisusculus, leviter costatus. *Folia* primò parè lanata, mox glaberrima; *radicalia* elongato-petiolata, petiolis infra medium utrinque membranâ semi-linearilanceolata, integerrimâ auctis, amplexicaulibus, circumscriptione reniformia, plerumque ultra medium palmatim triloba: lobo intermedio integro vel trifido; lobis lateralibus 4-fidis (interdum altius incisus et folium tunc palmatim-multi-lobum) lacinii oblongis linearibusve, obtusis, rarè breviter acuminatis, quò exterioribus eò minoribus et magis divaricatis; *caulina* in lacinias lineares integerrimas obtusiusculas ad basin usque partita, basilus membranaceis, amplexiculibus, ciliatis: imum sub-petiolatum lacinii sex: summum sessile lacinii tribus. *Calyx* flavescenti-erubescens, villosus, reflexus, petalis dimidio brevior. *Petala* lutea patentissima, obovata, obtusissima, receptaculo breviora. *Stamina* filamentis brevissimis, antheris oblongis. *Germine* glabra stylo recurvato mucronata, receptaculo cylindraceo.

228. *R. PENNSYLVANICUS*, *Decand. Syst.* i. p. 290. *Pursh*, ii. p. 393. (W.)

229. *R. PERSHII*, glaberrimus, foliis petiolatis: depressis ternatim decompositis: elevatis bis terve palmatim trifidis, caule repente, petalis calyce glaberrimo triplo longioribus. *R. Fistulosus*: *Pursh inedit. in Herb. Lambert?* (W.B.)

Caulis teretes filiformis teneri super arenis irrigatas implexè repentes, ascendentes. *Folia* nonnulla depressa ternatim decomposita, lacinii divaricatis, linearibus acutis; alia *elevata* sub-reniformia, lacinii divaricatis, cuneatis apice deutatis incisive, lateralibus saepe trifidis; segmentis omnibus glaberrimis utrinque consoloribus marginibusque erubescens. *Petiolis* basi amplexicaules, trinerves et membrana teneri, rotundata, integra, ciliata aucti. *Pedunculus* unus præcocior nulus, non sulcatus caulem quasi terminans et intermedium proximum longitudine et crassitudine fere sequens, folioque oppositus: alter axillaria, brevis unilorus vel saepe biflorus foliosus et mox elongaturus. *Calyx* glaberrimus reflexus foliis tribus quaternive sub-membranaceis, nervis tribus quatuorve ramosis, concavis fere saecatis, deciduis. *Petala* 5-6 saturatè flava, late elliptica, obovata obtusissima, 5-nervosa, nitentia, subtus opaca, calyce triplo longiora, ungue brevi, foveolâ nectariferâ patelliformi margine elevato circumscintâ. *Semina* sublenticularia, glabra, stylo brevi compresso terminata.

β . Margines rivulorum arenosas sicciores habitans, differt foliis omnibus reniformi-rotundatis, palmato-trifida, lacinii divaricatis, cuneatis, apice dentatis, incisive segmentis obtusis. *R. hyperboreo*, affinis, sed petalis calyce majoribus diversa. (B.)

230. *R. LAPPONICUS*, *Decand. Syst.* i. p. 271. (W.)

231. *R. PYGMEUS*, *Wahl. fl. Lapp.* p. 157. *Pursh*, i. p. 393. (B.)

Specimina hujus stirpis ad oras maris hyperborei lecta et tunc cum figura Wahl. comparata postea amissa erant.

232. *R. NIVALIS*, β . *Brown. Suppl. Parry's Voy.* No. 1. p. cclxiv. *R. sulphureus*, *Frankl. App.* 1 ed. No. 222. p. 742. (B.)

- α. *Brown. l. c.* quoque observata fuit sed specimina amissa erant. (B.)
 233. *R. SCLEPERATUS*, *Decand. Syst.* i. p. 268. *Pursh.* i. p. 293. (W.)
 234. *CALTHA PALUSTRIS*, *Willd.* ii. p. 1339. *Pursh.* i. p. 390. (W.)
 235. *C. NATANS*, *Gmel. Fl. Sibir.* iv. t. 82. *Willd.* ii. p. 1339. (W.)
 236. *COPTIS TRIFOLIA*, *D. C. Syst.* i. p. 322. *Pursh.* 2. p. 390. *Helleborus trifolius*, *Mich. Am.* i. p. 325. (W.)

DIDYNAMIA.

237. *MENTHA CANADENSIS*, *Pursh.* ii. p. 405. *Amiscuiscuscoa* (beaver-grass.) *Cree Ind.* (W.)

238. *STACHYS AMBIGUA*, *Smith. Comp. Fl. Brit.* p. 91. *Eng. Bot.* t. 2089. (W.)
 239. *DRACOCEPHALUM* ? *PARYFLORUM*, *Nuttall. Am.* ii. p. 35. (W.)
 240. *SCUTELLARIA GALERICULATA*, *Willd.* iii. p. 173. *Pursh.* ii. p. 412. (W.)
 241. *EUPHRASIA OFFICINALIS*, *Willd.* iii. p. 193. *Pursh.* ii. p. 430. (W.)
 242. *BARTSIA PALLIDA*, *Willd.* iii. p. 186. *Pursh.* ii. p. 429. (W.B.)
 243. *RHINANTHUS CRISTA-GALLI*, *Willd.* iii. p. 188. *Pursh.* ii. p. 429. (W.)
 244. *PEDICULARIS MACRODONTIS*, caule sub-simplici, foliis pinnatifidis : floralibus flore longioribus : pinnis linearibus obtusis, calyce bilobo cristato, galeâ obtusissimâ ad faucem dentatâ. (W.)

Herba glabra. *Caulis* pedalis et ultra, erectus gracilis plerumque simplex interdum tamen ramulos ex axillis superioribus prodiens. *Folia* remotiuscula, fere sesquipollicaria, acuminata profunde pinnatifida ; pinnis patentissimis linearibus obtusis, sinuato-dentatis crenatisve. *Flores* axillares sessiles foliis floralibus interdum plus duplo breviores. *Flos* fere *P. palustris*. *Calyx* ovatus, inflatus, corollâ duplo brevior. *Galea* obtusissima nec emarginata et dentibus sub apice carens, ad faucem tamen dente majusculo, lato, angulo recto stante utrinque munita. *Labium* inferius galeâ sub-brevius, 3-lobum, lobis sub æqualibus integerrimis.

245. *P. EUPHRASIOIDES*, β. *Labradorica*, *Willd.* iii. p. 204. *Pursh.* ii. p. 424. (W.B.)
Caulis erectus, ramosus, pilis brevibus pubescens. *Calyx* pedunculatus, glabriusculus, bilabiatus, sinu superiori obtuso, sinu inferiori profundiori, acuto, labiis unidentatis. *Corolla* flava, tubo calyce fere duplo longiori ; labio inferiori 3-lobo, lobis rotundatis integerrimis ; galeâ rostratâ, deciduâ, bi-dentatâ, pistillo exserto. Humidis muscosis habitans.

246. *P. FLAMMEA*, *Willd.* iii. p. 215. *Pursh.* ii. p. 246. (B.)
Caulis solitarius (nec ut in *P. flammeâ* in Lapponia crescente et *Wahl.* p. 168 descriptâ caules plures), palmaris, firmus, erubescens. *Folia* petiolata, pinnata, pinnis, ellipticis, decursivis, retro-imbricatis, inciso-duplicato-dentatis, denticulis singulis pilò acutò apiculatis, colore obscura. *Spica* florum sub-racemosa, foliacea, laxiuscula. *Flores* summi præcociores et foliolis dilatatis, brevibus, pinnatifidis fulcrati : imi serius ex axillis foliorum prodeuntes. *Pedunculi* floriferi calycibus breviores. *Calyx* rubrò maculatus, pilis raris pubescens, 5-dentatus, dentibus lanceolato-subulatis. *Corolla* erecto-patens, infernè saturatè flava ; galeâ saturatè brunnescenti-rubrà, obtusissimâ, edentulâ, integerrimâ, stigma includenti ; tubo calycem æquantî ; lobis labii inferioris rotundatis, sub-dentatis. *Locis* apricis, graminosis, nive solutâ irrigatis habitans.

247. *P. LAPPONICA*, *Willd.* iii. p. 207. *Pursh.* ii. p. 245. *Wahl. fl. Suppl.* i. p. 309. (B.)

Perennis, palmatis vix spithamea. *Corolla* primulaceo-flava: labio inferiori, latiusculo, reclinato, 3-loba, lobo intermedio minori recurvo, lobis omnibus crosso-dentatis; galeâ in rostro brevi, deciso, deorsum spectante, attenuatâ. *Stigma* exsertum.

Hab. consors præcedenti.

248. *P. SUDETICA*, Willd. iii. p. 209. (B.)

Cel. Brown (*Pteryg. Fay. Supp.* cclxxxi. in *adnotis*) dixit, "P. sudetica, Rich. in *Frank. Journ.* a sudetica vera vix diversa est nisi corollæ labio superiore brevior, denticulo longior, caule sub-anifolio, nec species distincta videtur." Descriptionem ad plantam vivam confectam appono.

Radix fibrosa. *Caulis* plerumque solitarius, spithameus et ultra, sæpè tortus, inferne glaberrimus. *Folia radicalia* elongato-petiolata, petiolo canaliculato, circumscriptione linearilanceolata, acuta, profundè pinnatifida, pinnis linearilanceolatis acutis, regulariter serratis, serraturis brunneis; *caulina* nunc petiolata, nunc sessilia, juniora pubescentia. *Spica* pilis intricatis nitentibus lanata. *Calyx* florens sessilis, copiosè lanatus, segmentis 5, linearibus, acutis, serratis. *Corolla* erecta, roseo-rubra, faucè purpureo maculata, aperta, sub-ventricosa; tubo calycem aequante; galeâ columbino-rubrà, obtusissimâ, brevissimè rostratâ, rostro deciso, leviter crosso, crenatove, et dentibus duobus subulatis deorsum directis munito; labio inferiorè altè triloba, lobis repandis, crosso, dentatis. *Stylus* exsertus. *Hab.* cum duobus præcedentibus.

249. *P. HIRSUTA*, Willd. iii. p. 216. Brown. *Ros's Fay. Wahl. Lapp.* p. 169. (B.)

Descriptio Wahl. data in omnibus convenit præter stigma inclusum. *Corolla* tota rosea; galeâ obtusissimè edentulâ; lobis labii inferioris integerrimis. *Stigma* exsertum.

250. *P. NELSONII*, Brown. *MS. in Herb. Banks.* P. verticillata. *Pursh.* ii. p. 426. exclus. synon. (B.)

Spithamea, pubescens. *Folia* petiolata, pinnata, pinnis ellipticis, utrinque acutis, pinnatifidis, marginibus coccineo-rubris. *Flores* bini, ternes quaternesve sub-verticillati. *Corolla* primulaceo-flava, edentula; galeâ compressâ hinc clausâ; labio inferiori dilutissimè carneo-rubro, lobis tribus carinatis.

251. *LINNÆA BOREALIS*, Willd. iii. p. 340. *Pursh.* ii. p. 415. (W.)

TETRADYNAMIA.

Pleurorrhizæ. Decand.

252. *NASTURTIUM PALUSTRE*, Decand. *Syst.* ii. p. 191. *Sisymbrium palustre*, *Pursh.* ii. p. 240. (W.)

253. *BARBAREA PRÆCOX*, Decand. *Syst.* ii. p. 207. (W.)

254. *BRAYA*? *GLABELLA*, foliis linearibus plerumque remote dentatis, racemo fructifero laxo elongato. (B.)

Radix fusiformis ad collum in caudices paucos breves reliquis foliorum obtectos divisa. *Folia* sub-radicalia fere bipollicaria erecta, è basi tenui lineare sursum lanceolatim dilatata, acuta, medium versus dentibus 2 vel 3 acutis sæpe instructa, utrinque emesclora, glabriuscula, costâ obsoletiori percursa sed venis nullis transparentibus. *Caulis* palmatos erecti costati pube bifida rarissimâ muniti: alii scapiformes ex ipsa radice, alii è summo surculorum brevium foliorum exsurgentes, rarius folio uno alterve radicalibus simili instructi. *Racemus* elongatus, pedunculis erectisculis calycem aequantibus. *Flores* parvi. *Lacinia calycina* erecta, linearis, obtusa, glabra. *Petala* exsiccata pallide purpurascentes, limbis obtusis integerrimis calycem duplo altioribus. *Stylus* filiformis breviter stigmatè sub-capitato emarginato. *Siliqua* immaturum sub-erectè calyce persistente triplo longior, torulosa, stylo coronatæ.

Hab. On the Copper Mountains.

255. *TURRITIS GLABRA*, *Decand. Syst.* ii. p. 211. (W.)

256. *ARABIS SAGITTATA*, *Decand. Syst.* ii. p. 221. *Turritis ovata*, *Pursh.* ii. p. 438. (W.)

257. *A. HISPIDA*, *Brown. Hort. Kew.* iv. p. 106. *A. petræa*, β . *Decand. Syst.* ii. p. 230. (B.)

258. *A. LYRATA*, *Decand. Syst.* ii. p. 231. *Pursh.* ii. p. 437. (W.)

259. *CARDAMINE PRATENSIS*, *Decand. Syst.* ii. p. 256. *Pursh.* ii. p. 440. (W.B.)

260. *C. HIRSUTA*, *Decand. Syst.* ii. p. 259. (W.)

261. *C. DIGITATA*, foliis digitatim pinnatis: pinnis sessilibus linearibus integerri-
mis, stylo brevi vix siliqua tenuiori: stigmatē capitato. (B.)

Herba glaberrima. *Folia* digitatim pinnata; *inferiora* petiolo longo gracili, pinnisque 7 approximatis: *superiora* brevius petiolata pinnis paulo remotioribus: *summum* subsessile, pinnis 3 aut 5; *pinnis* omnibus sessilibus conformibus. *Caulis* dodrantalis, simplex, basi repens ascendens, superne erectus sub-flexuosus. *Racemi* erecti, multiflori. *Pedicelli* siliquis longiores, patentes. *Flores* ferè magnitudine *Card. pratensis*. *Calyx* flavescens. *Petala* obovata, calyce duplo longiora, alba vel purpureo tincta. *Stylus* crassiusculus lineam longus, stigmatē capitato. *Siliquæ* juniores breviusculæ; maturas non vidi.

262. *C. BELLIDIFOLIA*. *D. C. Syst.* ii. p. 249. *Brown. Supp. Parry's Voy.* cclxx. No. 15. (B.)

Specimens of this plant, collected on the shores of Coronation Gulf, were lost with the rest of that summer's collection, in crossing the *Barren Grounds*.

263. *VESICARIA ARCTICA*, *Alyssum?* *arcticum*: *Decand. Syst.* ii. p. 324. (B.)

Radix teres longa descendens, multiceps. *Caulēs* breves crassi, reliquiis foliorum emarcidis, incanis densissimè co-operti. *Folia* radicalia confertissima, ovali-spathulata, obtusa vel acutiuscula, basi in petiolum laminam subæquantem attenuata, crassa ut venæ nullæ transparent, vestigium tantum nervi mediæ erubescens infra visu, pilis stellatis utrinque densissime vestita, flavescenti-incana. *Scapi* filiformes simplices, palmares, ascendentes, foliis paucis lanceolatis, basi attenuatis, sessilibus muniti, pubescentiâ ut in foliis. *Corymbus* terminalis, sæpius 3-florus, rarius 1, 2-vel 4-florus, sub-dichotomus. *Pedunculi* sub anthesin flores æquantes vel excedentes, postea paulò elongati, stellatim pilosi, ad apicem paulo incrassati, divaricati, post anthesin sæpius recurvi. *Calyx* petalis brevior, pilis stellatis incanus, sepalis lineari-lanceolatis, concavis, subæqualibus, cum petalis deciduis. *Petala* cuneato-obovata, flava, nervis ramosis saturatius flavis, ungue latò, lineari, membranaceò, albò, uninervò, citò decidua. *Stamina* longiora calyce æquantia, filamentis omnibus subulatis, integris, albis, antheris ochroleucis. *Siliculæ* magnitudine pisi sativi, pedunculis duplo v. triplo breviores, biloculares, inflatæ, sub-globosæ sed diametro ad dissepimentum minori, septo membranaceo facile in laminas duas separabili, stylo persistente brevi (semi-lineam longo) filiformi et stigmatē orbiculato pubescenti coronatæ. *Semina* in loculo singulo 6 aut plura, biserialia, pyriformia, superne confertiora. In ærensis, lat. 67°.

264. *V. ARENOSA*, foliis inferioribus sub-rhombeis obsolete sinuato-dentatis pube stellatâ canescentibus, caulibus teretibus basi suffruticosis, siliculâ pubescente. (W.)

Radix fusiformis. *Folia* radicalia plurima erecta elliptica parciter obsoleteque sinuato-dentata vel non raro rhomboidea, acuta, in petiolum ipsâ laminâ sesquilongiore attenuata, utrinque pube stellatâ adpressa dense tecta, supra flavescenti-viridia subtus canescentia. *Caulēs* patentes aut ascendentes, firmi, palmares simplices, erubescens, teretes, pilis stellatis vestiti folisque paucis magis aut minus linearibus, nunc sessilibus nunc in petiolum attenuatis instructi. *Racemi* terminales. *Pedicelli* flores longitudine æquantes.

Pubescentia calycis pedicellorumque ut in foliis. *Petala* flava obovata in unguem attenuata, calyce sesquilongiora. *Stamina* edentula. *Stylus* filiformis, stigmatē capitato. *Germen* pilosum. *Siliiculum* maturam non vidi. Floret Maio.

Hab. On the sandy plains of the Saskatchewan, lat. 53°.

265. *DRABA ALPINA*, *Decand. Syst.* ii. p. 338. *Wahl. Fl. Lapp.* p. 173. t. xi. f. 4. (B.)

266. *D. MERICELLA*, *Decand. Syst.* ii. p. 340. *Brown. App. Ross's Voy.* (B.)

267. *D. HIRTA*, α inferalpina, *Wahl. Fl. Lapp.* p. 175. t. xi. f. 3. *Decand.* ii. p. 340. (B.)

268. *D. GLABELLA*, *Pursh.* ii. p. 434. (B.)

269. *D. LUTEA* β . *longipes*, *Decand. Syst.* ii. p. 351? (W.)

270. *CAPELLA BURSA PASTORIS*, *Decand. Syst.* ii. p. 383. (W.)

Notorhizeæ. Decand.

271. *SISYMBRIUM CANESCENS*, *Frankl. Append.* 1 ed. No. 259, p. 744. non Nuttall. fide Nuttallio. (W.)

272. *S. BRACHYCARPUM*, foliis bipinnatisectis: lobis obtusis integris vel parciter incis, petalis calyce majoribus, siliquis linearibus sub-tetragonis pedicello brevioribus. (W.)

Facies *S. Sophiae*, at facile distinguitur siliquis duplo brevioribus. *Caulis* bipedalis, simplex aut superne corymboso-ramosus, glandulis parvis pedicellatis munitus. *Folia* pinnata, pinnis pinnatifidis, lobis oblongis lanceolatisve, extimis majoribus, glabra aut pube glandulosa munita. *Petala* obovata, pallide flava, calycem saturatus flavum paulo superantia. *Siliqua* erectiuscula, pedicello patenti brevior vel interdum fere æqualis, teretiuscula sed propter lineam elevatam in axi valvularum subtetragona, stigmatē orbiculato terminata, 4 lineas longa, lineam lata.

273. *S. SOPHIA*, var.? *Decand. Syst.* ii. p. 474? (B.)

Lobis foliorum latioribus obtusis et notis aliis forsan species diversa?

274. *ERYSIMUM CHEIRANTHOIDES*, *Decand. Syst.* i. p. 498. *Pursh.* ii. p. 436. (W.)

275. *LEPIDIUM RUDERALE*, *Decand. Syst.* ii. p. 540. (W.)

MONADELPHIA.

276. *GERANIUM CAROLINIANUM*, *Willd.* iii. p. 711. *Pursh.* ii. p. 449. (W.)

DIADELPHIA.

277. *CORYDALIS GLAUCA*, *Pursh.* ii. p. 463. (W.)

278. *C. AUREA*, *Pursh.* ii. p. 463. (W.)

279. *POLYGALA PAUCIFOLIA*, *Willd.* iii. p. 880. *Pursh.* ii. p. 464. (W.)

280. *P. SENEGA*, *Willd.* iii. p. 894. *Pursh.* iii. p. 464. (W.B.)

281. *LUPINUS PERENNIS*, var. foliis magis acutis et cum caule pilosioribus: *Willd.* iii. p. 1022? *Pursh.* ii. p. 467? (B.)

282. *LATHYRUS PISIFORMIS*, varietas, stipulis folia tantum æquantibus semi-sagittato-cordatis: basi angulato-dentato, cæteris similis. *Willd.* iii. p. 1092? (W.)

283. *PISUM MARITIMUM*, *Willd.* iii. p. 1071. *Pursh.* ii. p. 470. (W.B.)

284. *VICIA AMERICANA*, *Willd.* iii. p. 1096. *Pursh.* ii. p. 471. (W.)

285. *HEDYSARUM ALPINUM*, *Gmelin. Sibir.* 4. p. 26. No. 35, t. 10. (W.B.)

Obs. Planta stricta bipedalis et ultra glaberrima, caule firmo coccineo, a *H. alpino Mich.* diversa.

286. *HEDYSARUM MACKENZII*, caulescens decumbens, foliis pinnatis foliolis oblongis utrinque canescenti-pilosis, stipulis vaginantibus, articulis lomenti transversim rugosis pilosis. (B.)

Caulis ulnaris decumbens parciter ramosus, angulatus superne pilis mollibus brevissimis adpressis tectus. *Folia* pinnata cum impari palmaria fere sessilia rachide trilaterali adpresso-pilosa: foliolis 5-7-jugis, petiolatis sub-oppositis æqualibus sesquipollicaribus oblongis aut ovato-lanceolatis obtusis, utrinque pilis brevibus in-canis, venis paucis curvis ramosis obscure transparentibus. *Stipulæ* coalitæ vaginantes parvæ membranaceæ acuminatæ pilosæ. *Pedunculi* axillares foliis duplo longiores caulem crassitudine æquantes superne villosi. *Racemus* 7-10 florus, pedicellis sericeis calycem æquantibus bracteisque suis membranaceis subulatis brevioribus. *Calyx* membranaceus pilosus mox erubescens bractea setacea adpressa utrinque fuleratus 5-fidus: laciniis subulatis, superioribus sinu obtusiori separatis. *Corolla* magna speciosa carmesino-rubra purpurascensve. *Vexillum* obcordatum carinam obtusissimam æquans calyceque quintuplo longius. *Alæ* calyce triplo longiores. *Legumen* 5-7 articulis compressis transversim rugosis et pilis brevissimis adpressis vestitis. *Semina* reniformia.

This is the Liquorice-plant mentioned by Sir Alexander M'Kenzie in his *Voyage to the Arctic Sea*.

β? foliis supra ovariisque glabris. *H. boreale?* *Frankl. App.* 1 ed. No. 275. p. 745. (W.)

287. *PHACA FRIGIDA*, *Willd.* iii. p. 1253. *Wahl. Lapp.* p. 188. *Fl. Dan.* t. 856. (W.)

288. *PH. ASTRAGALINA*, *Decand. Astr.* p. 52. *Astr. alpinus*, *Pursh.* ii. p. 472. *Brown. Supp. Parry's Voy.* p. cclxxviii. No. 35. (W.B.)

289. *OXYTROPIS OXYPHYLLA*, *Pall. Astr.* t. 74? *Pall. Itin.* iii. t. x. f. 2? (W.)

290. *O. DEFLEXA*, *Decand. Astr.* p. 96. *Astragalus parviflorus*: *Willd.* iii. p. 1278. (W.)

291. *O. CAMPESTRIS*, *Decand. Astr.* p. 74. *Astr. campestris*, *Willd.* iii. p. 1317. (B.)

292. *O. ARGENTATA*, *Pursh.* ii. p. 473. *Astr. argentata*: *Pall. Astr.* p. 69. t. 48. (W.)

293. *O. URALENSIS*, *Decand. Astr.* p. 69. *Astr. uralensis*, *Hort. Kew.* iv. p. 370. *Phaca sordida*: *Wahl. Fl. Lapp.* p. 190. (B.)

294. *ASTRAGALUS MELANOCARPUS*, *Frazer's Catalogue.* A. *Missouriensis*: *Nuttall*, ii. p. 99? exclus. syn. *Purshii.* A. *Setosus*: *Pursh. ined. Herb. Lamb.* (W.)

295. *A. VAGINATUS*, *Pall. Astr.* p. 76. t. 36. (B.)

296. *A. ABORIGINORUM*, suffruticosus erectus canescens, foliis sessilibus; foliolis 6-jugis lanceolato-linearibus, racemjs axillaribus laxis foliis longioribus. (W.)

Præcedenti similis. *Radix* teres longa flavescens *Glycyrrhizæ* similis è qua surgunt caules plures pedales suffruticosi erecti graciles simpliciusculi pilis mollibus canescentes. *Folia* sessilia pinnata, pube canescenti ut in caule sed longiori et densiori: rachide bipollicari filiformi: foliolis plerumque 11, pollicaribus, sessilibus, linearibus lanceolatisve obtusiusculis basi attenuatis utrinque concoloribus nunc alternis nunc oppositis rariusve verticillatis; stipulis caulinis: inferioribus connatis ovatis acutis; superioribus magis distinctis acuminatis. *Pedunculi* axillares foliis duplo longiores pilosi. *Racemus* erectus laxus 15-20 florus, pedicellis

erectis calyce et bracteis subulatis pilosâ brevioribus. *Calyx* nigrescenti-pilosus, laciniis quinque subulatis æqualibus; superioribus sinu obtuso separatis. *Corolla* albidâ cærulescente carinâ saturatè cæruleâ. *Fæcilium* ungue lato horizontali calyce breviori, limbo obcordato erecto. *Ale* vexillo breviores carinâ paulo longiores, ungue tenui lineari, limbo oblongo emarginato ad basin lobo lineari obovato aucto. *Carina* obtusa calyce tertia parte longior. *Legumen* immaturum oblongum, pilis canis adpressis tectum, pedicello longitudine calycis sustentatum, stylo brevi incurvo capitato terminatum. *Semina* 14.

The Crees and Stone Indians gather its roots in the spring, as an article of food.

297. *A. HYPOGLOTTIS*, Willd. iii. p. 1285. *Nutt. Am. ii.* p. 99. (W.)

298. *A. SUCULENTUS*, caulescens decumbens glabriusculus, foliolis ovalibus obtusis, stipulis glabris triangularibus, spicis pedunculatis folio brevioribus. (W.)

Herbaceus spithameus glabriusculus vel pilis adpressis vix conspicuis deciduis munitis. *Caulis* decumbens sub-angulatus superne crassior. *Folia* sessilia rachide bi-pullicari sub-trilateriali superne attenuatâ, foliolis 21 trilincaribus, ovalibus obtusissimis avenis brevissimè ciliatis supra glabra subtus pilis sparsis inconspicuis munitis; foliolis exterioribus paulo minoribus: *stipulis* caulinis triangularibus integerrimis glabris viridibus, basibus infra petiolum connatis ibique costis tribus decurrentibus munitis. *Folia* basin versus caulis breviora foliolisque eorum minorâ. *Pedunculi* foliis breviores, axillares, crassi. *Spica* sub-decemfolia conferta. *Flores* magni ochroleuci, carinæ apice purpurascenti, bracteis membranaceis suffultis. *Calyx* subsessilis cylindricus membranaceus pallidus, inferne glaber, superne pilis sparsis munitis, dentibus subulatis sinibus obtusis separatis. *Vexillum* alis quartâ parte longius, oblongum, acute emarginatum, lateribus replicatis. *Ale* carina tertia parte, calyce duplè longiores, ungue tenui, limbo lineari-oblongo integerrimo obtuso inferne lobo brevi obtuso auriculato. *Germina* glabra polysperma, stylo longo ad apicem incurvo acuminata. *Fructum* maturum non vidi.

SYNGENESIA.

299. *LEONTODON PALUSTRE*, Smith. *Fl. Brit. ii.* p. 823. *Engl. Bot. t.* 553. (W.B.)

300. *TROXIMON GLAUCUM*, Pursh. ii. p. 505. (W.)

301. *HIERACIUM UMBELLATUM*, Willd. *Jl. Lupp.* 198. *Engl. Bot. t.* 1771. (W.)

302. *CREPIS*? *NANA*, glaberrima, foliis petiolatis ovatis integerrimis, pappo sessili (B.)

Herba glauca sesquipullicaris multiflora. *Radix* fusiformis simplex caules plures brevissimos decumbentes alens. *Folia* radicalia confertissima ovata integerrima trinervia glaberrima supra olivaceo-viridia, subtus rubescenti-viridia, petiolis caules pedunculosque superantibus. *Caules* reliquis foliorum obtecti in pedunculo vel ramis corymbosis unifloris foliis paucis linearibus munitis divisi. *Calyc* gracilis cylindricus calyculatus pedunculo vel ramo suo longior; squamis exterioribus brevibus linearibus adpressis diversæ altitudinis; interioribus æqualibus carinatis glaberrimis. *Flosculi* saturatè flavi calyce altiores lineares 5-dentati. *Semina* linearia superne paulo attenuata pappo sessili simplici scabriusculo coronata.

Hab. On the Copper-Mine River.

303. *SAUSSURIA MONTICOLA*, parvè lanata, foliis linearibus integerrimis, foliolis involucri oblongo-cylindrici villosi lanceolatis acutis. *S.* multiflora, *Frankl. App.* 1 ed. No. 292. p. 747. (B.)

Radix perennis, sub-lignosa, descendens. *Caulis* validus sub-pentangularis, nunc corymbosus, nunc corymboso-paniculatus, cum ramis lanâ implexâ parvè obsitus. *Rami* spithamei, obsidetè angulati, stricti, orientes interdum prope basin caulis et tunc ramus centralis (continuatio caulis) cæteris paulo crassior est, interdum versus apicem caulis dodrantalis conferti, uni, bi, aut triflori, sub-cavi. *Folia* bipullicaria, sessilia linearia, acuta, rarè lineari-lanceolata, integerrima, avenia, nervo medio percursa, super glabriuscula, subter parvè

lanata, exsiccatione margine revoluta. *Pedunculi* sub flores paululum incrassati, et ibi cum involucris sordidè fusciscenti-purpurei, villosi. *Involucrum* (calyx communis) foliolis imbricatis adpressis. *Flosculi* hermaphroditi, purpurascens; tubo longo, gracile, filiforme, involucrum subæquante; limbo latiore, campanulato, 5-partito, lacinii linearibus erectis. *Antheræ* in tubum longum exsertum saturatè prunæo-cæruleum coalitæ. *Stylus* stigma bipartitum extra tubum antheræ proferens. *Pappus* sessilis plumosus. *Receptaculum* setaceum, setis longis, planis, subulatis.

Obs. S. alpina proxima.

Hab. On the Copper Mountains, in grassy places, lat. 67°.

304. *SONCHUS SIBIRICUS*, *Willd.* iii. p. 1522. (W.)

305. *TANACETUM PAUCIFLORUM*, foliis bi-pinnatis villosis sessilibus, caule simplici foliis longiore subunifloro, flosculis omnibus hermaphroditis, *MS. in Herb. Banks.* (W.)

Ulnaris. Folia bi-pinnata et tripinnatifida, lacinii angustis obtusiusculis. Flos plerumque unicus terminalis interdum alter è suprema axilla.

306. *ARTEMISIA VIRGATA*, frutescens sericeo-incana, ramis erectis gracilibus, foliis capillaceis bi-pinnatifidis: floralibus simplicibus flore longioribus, involucri hemisphærico; foliolis exterioribus villosis; interioribus scariosis majoribus. (W.)

Odor Art. Abrotani cui habitu similis sed foliis duplo minoribus.

307. *A. CAMPESTRIS*, *Willd.* iii. p. 1827. *Pursh.* ii. p. 521. (W.)

308. *A. BOREALIS*, *Willd.* iii. p. 1839. *Pall. Itin.* iii. p. 755. t. H. h. f. 2. *A. spithamæa*, *Pursh.* ii. p. 522? (B.)

309. *A. VULGARIS*, *Willd.* iii. p. 1845. *Pursh.* ii. p. 522. (B.)

310. *A. INTEGRIFOLIA*, *Willd.* iii. p. 1846. *Gmel. Sibir.* t. 48. f. 1. *Pursh.* ii. p. 521. (W.)

311. *A. BIENNIS*, *Sims. Bot. Mag.* t. 2472. (W.)

This plant was raised in the garden of the Horticultural Society, from seeds collected in the spring (after having withstood the winter), at Great Slave Lake.

312. *ANTENNARIA PLANTAGINEA*, *Brown. Lin. Trans.* xii. p. 123. *Gnaphalium plantagineum*, *Pursh.* ii. p. 525. *Frankl. App.* i ed. No. 300. p. 747. (W.)

313. *A. DIOICA*, *Brown. l. c.* *Gnaphalium dioicum*. *Frankl. App.* i ed. No. 301. p. 747. (W.)

314. *A. ALPINA*, *Brown. l. c. et Supp. Parry's Voy.* No. 41. p. cclxxv. *Gnaphalium alpinum*, *Frankl. App.* i ed. No. 302. p. 747. (B.)

315. *ERIGERON PULCHELLUM*, *Mich. Am.* ii. p. 224. *E. bellidifolium*, *Pursh.* ii. p. 532. *E. serpentaria*, *Herb. Banks. MSS.* (W.)

316. *E. PURPUREUM*, *Willd.* iii. p. 1958. *Pursh.* ii. p. 533. (W.)

317. *E. PHILADELPHICUM*, *Willd.* iii. p. 1957. *Pursh.* ii. p. 533. (W.)

318. *E. GLABELLUM*, *Nuttall. Am.* ii. p. 147. (W.)

319. *E. UNIFLORUM*, *Willd.* iii. p. 1960. *Eng. Bot.* t. 2416. (B.)

320. *SENECIO PAUCIFLORUS*, *Pursh.* ii. p. 529. (W.)

321. *S. GRACILIS*, *Pursh.* ii. p. 529. (W.)

322. *S. BALSAMITE*, *Willd.* iii. p. 1998. *Pursh.* ii. p. 530. (W.)

323. *S. AUREUS*, *Willd.* iii. p. 1998. *Pursh.* ii. p. 530. (W.)

324. *S. LUGENS*, tomentosus, foliis integris glanduloso-dentatis: radicalibus spatulatis: caulinis linearibus acutis, caule simplici, corymbo denso. (B.)

Herba pedalis, ubique pariter lanosa. *Caules* plures, simplices costati, erubescentes. *Folia* adeo crassa ut vix nulla transparent plana nec ullo modo cusiformia nihilominus costa erubescenti validè sub-apice evanidè munita: *radicalia* primordially palmaria spatulata et obtusissima; mox exsurgunt alia versus apicem elliptica vel lanceolata et acuta, haustus tamen semper angustis; *caulina* minora, remota, sessilia, semi-amplexicaulia lanceolato-linearia, acuminata, acuta, summa in bracteis sensim ducuntur: *media* dentata, dentibus nunc raris et ex glandulis parvis acutis omnino formatis, nunc frequentioribus et ex substantia folii constructis sed tunc etiam glandulis apiculatis. *Folia* juniora interdum revoluta sunt. *Corymbus* terminalis circiter 10-florus, pedunculis calyce vix duplo longioribus, tomentosus, bracteis linearibus acuminatis suffultis. *Calyx* cylindricus squamis paucis laxis minoribus calyculatus. Squamarum apices nigerimosi. *Floralis* disci calyce longiores, atheris stigma superantibus. *Flores* radii patentes calyce duplo longiores, limbis lanceolatis integerrimis vel emarginatis. *Pappus* simplex sessilis. *Receptaculum* nudum.

Hab. At Bloody Fall, where the Esquimaux were destroyed by the Northern Indians that accompanied Hearne, whence the specific name.

325. *S. EREMOPHILUS*, radio patente, caule depresso ramoso, foliis omnibus glaberrimis pinnatifidis: laciniis sub-linearibus distantibus semi-pinnatifidis, floribus corymbosis, bracteis (calyculis) laxis longis foliolis involucri cylindrici conformibus. (W.)

Caulis à basi ramosus. *Rami* ascendentes, adnatales, glabri, costati et striati, costis plerumque purpurascens-rubris. *Folia* circumscriptione lanceolata acuta, pinnatifida vel sub-bi-pinnatifida, sessilia, basi subter nervo medio valido et duobus minoribus lateralibus in costis caulis continuatis carinato, super canaliculato, et utrinque pinnulis auriculato; laciniis planis linearibus lanceolatis acutis remotisculis, plerumque sine obtuso separatis, latere anteriori uni-vel bi-dentato, saepe integerrimo, latere posteriori remotè sinuato-dentato saepe pinnatifido, medium versus folii majoribus, laciniâ tamen impari terminali ceteras omnes paulo excedenti. *Corymbus* terminalis pauciflorus, sub-compositus, floribus lateralibus saepius abortivis. *Pedunculi* costati, apice paulo incrassati, involucri longitudine subequantes. *Bractes* (calyculus) paucæ pedunculo et basi involucri insidentes, laxæ, longitudine et formâ foliorum involucri. *Flora* aurei, floribus *S. aquatici* majores. *Involuerum* foliolis aequalibus, angustis, linearibus, acutis, carinatis nervo medio prominente obtuso virido, rarius nervis duobus, marginibus membranaceis albis integerrimis vel his illis serratis, apicibus leviter sphaecelatis et oculo armato laevo-ciliatis, in basi villosa involucri receptaculum amplectente serie simpliciter insidentibus. *Ligula* femineæ, laminâ oblongo-linearî, apice obsolete dentato, integerrime, 4-nervi, patente, mox reflexâ, vel sub-revolutâ, tubum suum longitudine superante. *Flores* hermaphroditi, perfectæ, longitudine involucri: tubo gracili, basi obverse semi-globozo: limbo angustè cyathiformi, longitudine sui tubi, quinque nervi, quinque dentato, dentibus semi-lanceolatis nervisque circum-marginatis. *Atheres* semi-exsertæ, basibus muticis, appendicibus apicibus linearibus, liberis, acutis. *Ovaria* sub-cylindracea. *Stigmata* intus sulcata, apicibus capitatis, villosis. *Receptaculum* planum nudum. *Semina* decem-sulcata, in sulcis præcipue pilis brevissimis erectis hirta.

Hab. On the gravelly bench of Cedar Lake, lat. 54°.

Obs. Stirps solitaria semel tantum visa, et quoad habitus ideoque non rite cognita.

326. *CINERARIA INTEGRIFOLIA*, Willd. iii. p. 2082. Pursh. ii. p. 528. (W.)

327. *C. PALUSTRIS*, Willd. iii. p. 2080. (W.B.)

328. *C. FRIGIDA*, deciduo-tomentosa, foliis ovatis obsolete dentatis: radicalibus petiolatis, caule ascendente uniflora. (B.)

Radix repens. Caulis palmaris et ultra, simplex striatus, uniflorus tomento laxo deciduo vestitus. *Folia* plerumque ovata obtusa remote obsoleteque dentata 3-vel 5-nervosa, marginibus sub revolutis; *sub-radicalia* minor, glabra, in petiolum longum attenuata; *caulina media* majora, tomento ut in caule vestita; *caulina suprema* minor, linearia. *Flos* luteus. *Calyx* simplex pilis glanduliferis villosus, laciniis linearibus acutis longitudine disci. *Flosculi* radii calyce duplo longiores 3-dentati.

329. C. LEWISII. *Erigeron* compositum, *Pursh.* ii. p. 535. (B.)

330. *ASTER*? *EXSCAPUS*, foliis radicalibus lineari-lanceolatis adpresso pilosis flore sessili altioribus. (W.)

Radix fusiformis superne in caudices breves crassos reliquis foliorum obtectos divisa. *Folia* radicalia sesquipollicaria angusta acuta, inferne sensim attenuata, integerrima, utrinque pilis adpressis vestita. *Flos* magnus albo-violaceus in summo caudicis sessilis foliisque paulo brevior. *Calyx* adpresso-imbricatus, laciniis angustis lineari-subulatis acutis marginibus membranaceis ciliatis. *Flosculi* disci calyce paulo longiores pappo breviores. *Fl. radii* calyce plus duplo longiores angusti, lineares apice dentibus 3 conniventibus.

Hab. at Carlton House.

331. A. SALICIFOLIUS, *Frankl. App.* i ed. No. 318. p. 748. excl. syn. (W.)

Mr. Nuttall informs me that this is an undescribed species, but I have not materials remaining to give its characters.

332. A. GRAMINIFOLIUS, *Pursh.* ii. p. 545. (W.)

333. A. PALUDOSUS, *Willd.* iii. p. 2033. *Pursh.* ii. p. 551. (W.)

334. A. PANICULATUS, *Willd.* iii. p. 2035. *Pursh.* ii. p. 551. (W.)

335. A. CORDIFOLIUS, *Willd.* iii. p. 2036. *Pursh.* ii. p. 552. (W.)

336. A. SALSUGINOSUS, caule unifloro, foliis lineari-obovatis acutis sub-integerrimis venosis, calycibus laxis linearibus acutis disco vix duplo radio plus triplo brevioribus. (W.)

Herbaceus. *Caulis* plures ex eadem radice, dodrantes erecti aut ascendentes firmi simplices purpurei, sed pilis brevissimis sub-incanis. *Folia* sessilia lineari-obovata lanceolatave plerumque acuta, integerrima vel ad apicem dentibus raris munita, venosa, utrinque concolora, supra glabra, subtus pilis brevibus patentissimis vestita. *Flos* magnus terminalis propè quem caulis paulo incrassatus est et villosus. *Calyx* laxiusculus pilis brevibus canis obtectus, laciniis linearibus acutis, marginibus purpurascenscentibus. *Flosculi* disci calyce fere duplo longiores: *radii* triginti sesqui-unguiculares disco duplò longiores, lineares, sub-emarginati. *Germina* hirta pappo simplici dentato fusciscente disco æquante coronata.

Hab. On the Salt Plains in the Athabasca.

337. A. MONTANUS, radice repente, caule ramoso sub-bifloro ad apicem densè tomentoso, foliis latè oblongis remotè dentatis subtus breviter pilosis, calycibus squarrosis, flosculis radii numerosis angustis. (B.)

Radix repens. Caulis plures spithamæ ascendentes simplices aut ramosi firmi sulcati villosi-canescenscentibus ramis plerumque sterilibus. *Folia* sesquipollicaria apicem versus remotè dentata, subtusque pilosa, varia, modo latè lanceolata acuta, modo lineari-oblonga obtusa sed costa excurrente apiculata. *Flos* magnitudine *Erigerontis* alpini, terminalis propè quem caulis incrassatus est et tomento incano densissimè obtectus. *Calyx* villosus laciniis lineari-lanceolatis acutis imbricatis squarrosis, interioribus purpurascenscentibus radium sub-æquantibus. *Flosculi* disci calyce breviores; *radii* subtriginti angusti lineares sub-emarginati calyce paulo longiores. *Germina* pilosa, pappo simplici dentato fusciscente disco longiori. *Specimen* hujus

planta in herbario Pallasii nunc Lambertiano sub nomine falso *Erigerontis alpini* conservatum est. Asteris species propter calycem potius quam *Erigerontis*.

338. *SOLIDAGO TENUIFOLIA*, Pursh. ii. p. 540. (W.)
 339. *S. VIRGA-AUREA*, Willd. iii. p. 2065. Pursh. ii. p. 542. (W.)
 340. *S. STRICTA*, Willd. iii. p. 2062. Pursh. ii. p. 540. (W.)
 341. *S. JUNCEA*, Willd. iii. p. 2060. Pursh. ii. p. 538. (W.)
 342. *S. PROCERA*, Willd. iii. p. 2055. Pursh. ii. p. 535. (W.)
 343. *S. LANCEOLATA*, Willd. iii. p. 2062. Pursh. ii. p. 540. (W.)
 344. *S. HUMILIS*, Pursh. ii. p. 543. (W.)
 345. *ARNICA MONTANA*, Willd. iii. p. 2106. Nutt. Gen. Am. ii. p. 164. *Arnica plantaginea et fulgens*, Pursh. ii. p. 527. fide Nuttall. et Brown. (W.B.)
a. foliis ovatis. (W.)
β. foliis angustatis. Brown. Supp. Parry's Voy. No. 38. p. cclxxix. (B.)
 346. *GRINDELIA SQUARROSA*, Broten, Lin. Trans. v. xii. p. 102. *Donia squarrosa*, Pursh. ii. p. 559. (W.)
 347. *TUSSILAGO PALMATA*, Willd. iii. p. 1972. Pursh. ii. p. 531. (W.)
 348. *T. FRIGIDA*, Willd. iii. p. 1968. Pursh. ii. p. 531. (W.B.)
 Exemplaria ad oras maris arctici lecta postea amissa erant, hinc an ad *T. corymbosum*, Brown. Supp. Parry's Voy. No. 40. p. cclxxix. potius referri debent incertum est.
 349. *T. SAGITTATA*, Pursh. ii. p. 531. (W.)
 350. *CHRYSANTHEMUM INTEGRIFOLIUM*, pilosum, foliis linearibus integerrimis, caule sub-aphyllo unifloro. (B.)

Radix gracilis perennis. *Folia* radicalia conferta, ferè pulicaria, linearia, obtusiuscula, integerrima, pilosa. *Caulis* simplicissimus, digitalis, superne incrassatus, pilis mollioribus patentissimis dense tectus et interdum folio uno alterove fere setaceo instructus. *Flos* pro ratione plantæ magnus. *Calyx* hemisphæricus imbricatus, squamis elliptico-obovatis, appressis, viridibus, marginibus membranaceis laceris umbrino-fuscis. *Floresculi* radii albi, magni, latè elliptici, 3-dentati; disci lutei. *Receptaculum* pilosiusculum. *C. graminifolius*, Lam. Ill. t. 678. f. affinis.

Hab. On the Copper Mountains.

351. *ACHILLEA PTARMICA*, Willd. iii. p. 2191. Pursh. ii. p. 562. (W.B.)
 352. *A. MILLEFOLIUM*, Willd. iii. p. 2208. Pursh. ii. p. 563. (W.B.)

GYNANDRIA.

353. *HABENARIA OBTUSATA*, *Orchis obtusata*, Pursh. ii. p. 588. (W.)
 354. *H. HYPERBOREA*, Brown. Hort. Kew. v. p. 193. *Orchis hyperborea*, Pursh. ii. p. 588. et 751. (W.)
 355. *H. ROTUNDIFOLIA*, *Orchis rotundifolia*, Pursh. ii. p. 588. (W.)
 356. *NEOTTIA CERNUA*, Willd. iv. p. 75. Pursh. ii. p. 589. (B.)
 357. *CORALLORHIZA INNATA*, Brown. Hort. Kew. v. p. 209. Nuttall. Gen. Am. ii. p. 197. (W.)

358. *CYPRIPEDIUM PASSERINUM*, caule folioso, lobo (styli) petaloideo elliptico-cordato obtusiusculo, labello obovato ore rotundato contracto petalum superius lato-ovale obtusum et petala lateralialia linearia obtusissima sub-æquante. *C. parviflorum*, *Frankl. App.* i. ed. No. 345. p. 750. exclus. synonym. (W.)

Caulis pedalis pubescens, pilis laxis (exsiccatione) scariosis sæpius deorsum directis, ad insertiones foliorum magis densis, uniflorus. *Bractea* foliacea, magnitudine valdè varians, nunc germine brevior, nunc florem superans. *Folia* caulina, circiter 4-5, remotiuscula, amplexicaulia, lato-lanceolata, sensim acuminate, acuta, multinervia, tenuia, minime carnosa, pube brevissima rara ciliata et utrinque, magis tamen subter villosiuscula; superiora 4-pollicaria, florem sæpius superantia, inferiora sensim in squamas vaginantes diminuta. *Flores* parvi, floribus *Cypripedii* guttati minoribus. *Petala* multinervia; dua exteriora flavescenti-iridica, extus puberula et oculo armato pilis obtusis ciliata, superius lato-ellipticum fere orbiculatum, concavum, unguiculare, inferius (ex duobus connatis formatum) orbiculatum, brevissimè acuminatum, bicuspidatum, labello dimidio brevius; dua interiora (lateralialia) alba, ligulata, apice rotundata, vix petalo superiori longiora. *Labellum* obovatum, inflatum, magnitudine vix ovi passeris, petala lateralialia longitudine subæquans, ore rotundato parvulo, marginibus inflexis, extus glabrum, album, intus pubescens purpureo-maculatum, venis flexuosis. *Columna* (fructificationis) posticè filamento staminis sterilis expanso in lobum petaloideum, venosum, elliptico-cordatum, obtusiusculum, supra canaliculatum, apice ascendente fulvo, lateribus purpureo maculatis; filamentis lateralibus singulis cornu obtusum transversum cui anthera affixa est emitentibus. *Stigma* petatum, sub-orbiculatum, convexum, villosiusculum, sub tegmine lobi petaloidei. *Germen* pedunculatum, longitudine circiter labelli, inclinatum, oblongum, infra attenuatum, prismaticum, costatum, pube scariosa villosum. *Caulis* aridus anni præteritis epidermide et foliis orbatus capsulam ruptam gerens et caulis floriferus sæpè contiguè in radicem (repentem?) infixi sunt.

Hab. In pinetis (non ultra, lat. 58° visum.)

Obs. Accedit *C. spectabili* quod differt caule sæpius bifloro, floribus multò majoribus, labello anticè fissio et notis aliis.

Mr. Nuttall first found this plant, but published no description of it. He intended to have given it the appellation of *C. album*, which had been already applied by Aiton to *C. spectabile*.

359. *C. PUBESCENS*, *Willd.* iv. p. 143. *Pursh.* ii. p. 594. (W.)

360. *C. HUMILE*, *Willd.* iv. p. 144. *Pursh.* ii. p. 595. (W.)

α. petalis flavescenti-iridicis vel fusciscentibus, labello purpurascens, intus venis saturatius purpureis.

β. labello flavescenti-albo.

Hab. Cum priore in sylvis opacis rupestribus.

MONŒCIA.

361. *CHARA TRANSLUCENS*, *Eng. Bot.* t. 1855. (B.)

362. *TYPHA LATIFOLIA*, *Pursh.* i. p. 34? (W.)

363. *KOBRESIA SCIRPINA*, *Willd.* iv. p. 205. (B.)

CAREX. 1. *Spicis dioicis.*

364. *C. DIOICA*, *Willd.* iv. p. 207. (W.)

365. *C. SCIRPOIDEA*, *Mich. Am.* ii. p. 171. *Pursh.* i. p. 34. *C. Wormskioldiana*, *Hornemann, Fl. Dan.* t. 1528. (W.)

2. *Spica androgyna simplici, arista stricta (vel exserta vel inclusa.)*
366. C. FILIFOLIA, Nutt. Am. ii. p. 204. (W.)
3. *Spica androgyna simplici mutica.*
367. C. AFFINIS, spica androgyna simplici superne mascula, stigmatibus tribus, squamis lanceolatis acutis muticis : infima aristata. Brown, MS. (W.)
Obs. Proxima C. polytrichoidi. Br.
368. C. ATTENUATA, spica androgyna simplici : superne mascula densa : femineis paucioribus alternis, squamis omnibus obtusis. Brown, MS. (B.)
4. *Spicis androgynis pedunculatis.*
369. C. MEDIA, spicis androgynis ternis brevissimè pedunculatis sessilibusve approximatis basi masculis stigmatibus tribus, capsulis ovatis rostellatis glaberrimis squama ovata obtusiuscula longioribus. Brown, MS. (W.)
Prope C. bicolorum. Br.
370. C. FULIGINOSA, Stern. et Hoppe. in Act. Soc. Bot. Ratisb. i. p. 159. t. 3. (B.)
5. *Spicis androgynis sessilibus alternis.*
371. C. SCOPARIA, Willd. iv. p. 230. Pursh. i. p. 37. (W.)
372. C. LOLIACEA, Willd. iv. p. 237. (W.)
373. C. REMOTA, Willd. iv. p. 239. Pursh. i. p. 37. (W.)
6. *Spicis sexu distinctis, mascula solitaria, femineis subsessilibus scapo nudo bracteisque membranaceis vaginatis.*
374. C. RICHARDSONII, spica mascula pedunculata, femineis binis alternis subsessilibus exsertis multifloris, stigmatibus tribus, fructibus obtusis pubescentibus. Brown, MS. (W.)
7. *Spicis sexu distinctis, mascula solitaria, femineis sessilibus s. incluse pedunculatis.*
375. C. CONCINNA, spica mascula sessili cylindracea, femineis ternis subsessilibus approximatis, bracteis semimembranaceis, stigmatibus 3, capsulis trigono-obovatis brevissimè rostellatis pubescentibus duplo ferè longioribus squamis obovatis, foliis caulinis superioribus abbreviatis. Brown, MS. (W.B.)
Affinis C. marginatae, quae diversa spica mascula majori, femineis binis brevioribus, squamis obtusiusculis capsulam subaequantibus. Br.
376. C. VARIA, Willd. iv. p. 259. Pursh. i. p. 40. (W.)
377. C. COMPACTA, Brown. App. Rossi's Voyage. (B.)
Obs. Prope C. saxatilem. Br.
378. C. LUPULINA, Willd. iv. p. 266. Pursh. i. p. 41. (W.)
8. *Spicis sexu distinctis, mascula solitaria, femineis superioribus sessilibus vel incluse pedunculatis, inferioribus pedunculatis.*
379. C. MUTICA, spica mascula squamis obtusis, femineis tribus distantibus subexserte pedunculatis erectis raris, stigmatibus binis, capsulis ovalibus muticis

lævibus squama ovata mucronata longioribus, foliis bracteisque planis. *Brown, MS. (W.)*

380. *C. OLIGOCARPA*, Willd. iv. p. 279. *Pursh. i. p. 41. (W.B.)*

9. *Spicis sexu distinctis, mascula solitaria, femineis omnibus pedunculatis.*

381. *C. CAPILLARIS*, Willd. iv. p. 290. (W.)

382. *C. LIMOSA*, Willd. iv. p. 293. (W.)

383. *C. PODOCARPA*, spica mascula solitaria, femineis binis pendulis oblongis, stigmatibus tribus, fructibus ellipticis brevissimè rostellatis integris lævibus acheniisque pedicellatis, foliis caulinis inferioribus brevioribus lanceolatis. *Brown, MS. (B.)*

10. *Spicis sexu distinctis masculis pluribus.*

384. *C. PELLITA*, Willd. iv. p. 302. *Pursh. i. p. 44. (W.)*

385. *C. AMPULLACEA*, Willd. iv. p. 308. (W.)

386. *C. ARISTATA*, spicis femineis ternis quaternisve cylindræcis distantibus brevè pedunculatis, stigmatibus 3, capsulis glaberrimis nervosis rostro longissimo alte-bifido lævi: laciniis patentibus, squamis omnibus aristatis, foliis subtus vaginisque villosis. *Brown, MS. (W.)*

Inter *C. bullatam* et *lacustrem. Br.*

387. *ALNUS GLUTINOSA*, Willd. iv. p. 434. *Pursh. ii. p. 622. (W.B.)*

388. *URTICA GRACILIS*, Willd. iv. p. 356. (W.)

389. *MYRIOPHYLLUM SPICATUM*, Willd. iv. p. 406. *Pursh. i. p. 274. (W.)*

390. *CORYLUS AMERICANA*, Willd. iv. p. 471? *Pursh. ii. p. 634? (W.)*

391. *BETULA PAPIRACEA*, Willd. iv. p. 464. *Pursh. ii. p. 621. (W.)*

392. *B. GLANDULOSA*, Willd. iv. p. 466. *Pursh. ii. p. 622. (W.B.)*

393. *CALLA PALUSTRIS*, Willd. ii. p. 290. *Pursh. i. p. 399. (W.)*

394. *PINUS BALSAMEA*, Willd. iv. p. 504. *Pursh. ii. p. 639. (W.)*

395. *P. NIGRA*, *Lambert. Monogr. p. 41. t. 27. Pursh. ii. p. 640. (W.)*

It is found in swampy situations, as far north as lat. 65°, where it terminates, together with the *Betula papyracea*.

396. *P. ALBA*, *Lambert. Monogr. p. 39. t. 26. Pursh. ii. p. 641. (W.)*

The *Meenahic* of the Crees is the most northerly tree that came under our observation. On the Copper-Mine River, within twenty miles of the Arctic Sea, and in lat. 67½°, it attains the height of twenty feet or more. Its timber is in common use throughout the country, and its slender roots, denominated *Watapeh*, are indispensable to canoe-makers for sewing the slips of birch-bark together. The resin which it exudes is used for paying over the seams of the canoes, and canoes for temporary purposes are frequently formed of its own bark. It is the only tree that the Esquimaux of the Arctic Sea have access to while growing, and they contrive to make pretty strong bows by joining pieces of its wood together with the sinews of the Rein-deer.

397. *P. BANKSIANA*, *Lambert. Monogr. p. 7. t. 3. Pursh. ii. p. 642. (W.)*

This tree occupies dry sandy soils to the exclusion of all others. It is a handsome tree, with long spreading flexible branches, generally furnished with whorled curved cones of many years' growth. It attains the height of forty feet and upwards in favourable situations, but the diameter of its trunk is greater in proportion to its height than in the other pines of the country. In its native situation it exudes much less

resin than the *pinus alba*. The Canada porcupine feeds on its bark; and its wood, from its lightness and the straightness and toughness of its fibres, is much prized for canoe timbers. The Canadian voyagers term it Cypress, the Crees Oskartawac-sahic. It occurred on our route as far to the northward as lat. 64°, but it is said to attain higher latitudes on the sandy banks of Mackenzie's River.

398. *P. MICROCARPA*, *Lambert. Monogr.* p. 56. t. 37. *Pursh.* ii. p. 645. (W.)

Hab. In swampy situations, from York Factory to Point Lake, in lat. 65°. In the latter place it is very dwarfish, seldom exceeding six or eight feet in height. It is named by the voyagers L'Épinette Rouge, and by the Hudson's Bay men, Juniper. Its Cree name is Wagginawgan (the tree that bends.)

399. *THUYA OCCIDENTALIS*, *Willd.* iv. p. 508. *Pursh.* ii. p. 646. (W.)

DICECIA.

400. *SALIX PURPUREA*, *Smith. Fl. Brit.* iii. p. 1039. (W.)

401. *S. RUBRA*, *Smith. Fl. Brit.* iii. p. 1042. (W.)

402. *S. DECIPiens*, *Eng. Bot. t.* 1937. *Pursh.* ii. p. 617. (W.)

403. *S. FRAGILIS*, *Smith. Fl. Brit.* iii. p. 1051. *Eng. Bot. t.* 1807. (W.)

404. *S. CORDATA*, *Pursh.* ii. p. 615. (W.)

405. *S. MYRSINITES*, *Wahl. Fl. Lapp.* p. 262. *Pursh.* ii. p. 617. (B.)

406. *S. MYRTILLOIDES*, *Wahl. Fl. Lapp.* p. 266. (W.)

407. *S. AMMANIANA*, *Willd.* iv. p. 663? (W.)

408. *S. RETICULATA*, *Willd.* iv. p. 685. *Pursh.* ii. p. 610. (B.)

409. *S. ARCTICA*, *Brown's List of Plants, Ross's Voyage. Suppl. Parry's Voy.*
No. 47. p. cclxxxii. (B.)

Diffusa. Folia elliptico-obovata, integerrima, pilis sericeis vestita, mox glabra subtusque glauca venosa. Anthere purpuree. Germina sessilibus, elongata, sensim acuminata, griseo-tomentosa; stylo gracili. Squamae germinibus 5-tuplo breviores obovate rotundateve nigrescentes, pilis sericeis vestitæ.

410. *S. DESERTORUM*, foliis ovalibus integerrimis: subtus glaucis deciduo ?-villosis venosis, germinibus sessilibus longitudine squamarum tomentosis, stigmatibus sessilibus bifidis. (B.)

Frutex erectus sesquipedalis, cortice flavescenti-brunneo, nitido. Folia exstipulata exacte elliptica obtusa supra opaca glabra, subtus pube laxâ molli decidua ? vestita. Amenta serotina: masculina diandra pollinaria cylindrica: feminea pedicellata folisque fulcrata: squamis fuscis ellipticis obtusis: germinibus sesquilineis ovatis acuminatis squamis vix altioribus, stigmatibus bifidis, segmentis filiformibus divaricatis: nectario interno filiformi.

411. *S. VESTITA*, *Pursh.* ii. 610. (W.)

412. *S. GLAUCA*, α , *Wahl. Fl. Lapp.* p. 264. t. xvi. f. 3? (B.)

413. *S. ARENARIA*, macrostachys, *Schreicher. S. limosa*, *Wahl. Lapp.* p. 265? (B.)

414. *S. CANDIDA*, *Pursh.* ii. p. 608. (W.)

β ? *rugosa*, foliis nudiusculis exstipulatis reticulato-rugosis subtus glaucis, amentis omnino varietatis α . (W.)

415. *S. ROSTRATA*, foliis ellipticis acutis integerrimis pubescentibus subtus glau-

cescentibus, germinibus elongato-pedicellatis ovato-subulatis tomentosis, stigmatē sessili quadrifido. *S. phlyicifolia*, *Smith. Comp. Fl. Br.* p. 146? *Engl. Bot. t.* 1958? (W.)

Folia sesquipollicaria, exstipulata, pube sericea caduca? vestita, subtus grisea sub-glauca. *Amenta* feminea sæpe ferè palmaria pedunculata foliis tribus quatuorve fulcrata. *Squamæ* ellipticæ pallide brunneæ pilosæ. *Pedicelli* primo squamas vix superantes mox ad longitudinem unguicularem elongati et squamis triplo quadruplo longiores. *Germinæ* e basi ovatâ in rostrum ferè cylindricum producta, semper pedicellis longiora.

Obs. Seven or eight species of *salix* in the collection remained undetermined from the specimens not being perfect.

416. *EMPETRUM NIGRUM*, *Willd.* iv. p. 713. *Pursh.* i. p. 93. (W.B.)

In high northern latitudes its berries, after the first frosts, are very juicy and pleasant. They are hoarded up by the different species of marmots, and form the autumnal food of the *Anas hyperborea*.

417. *MYRICA GALE*, *Willd.* iv. p. 745. *Pursh.* ii. p. 618. (W.)

The Indian women use the buds of this plant to dye their porcupine quills with.

418. *POPULUS TREPIDA*, *Willd.* iv. p. 803. *Pursh.* ii. p. 618. (W.)

Hab. From Hudson's Bay to the northward of Great Slave Lake, as far as lat. 64°. It is denominated by the Crees, *Metoos*, and is esteemed to burn better in a green state than any other tree in the country.

419. *P. BALSAMIFERA*, *Willd.* iv. p. 805. *Pursh.* ii. p. 618. (W.)

The trunk of this tree attains a greater circumference than that of any other in the northern parts of America. It burns badly, and gives little heat when green, but its ashes yield a large quantity of potash. We traced it as far to the north as Great Slave Lake, and the south branch of Mackenzie's River has been named *Rivière aux Liards*, from its abundance in that quarter. It constituted the greatest part of the drift timber that we observed on the shores of the Arctic Sea. Its Cree name is *Matheh-metoos*, (ugly poplar.)

420. *JUNIPERUS COMMUNIS*, *Willd.* iv. p. 853. *Pursh.* ii. p. 647. (W.)

Its fruit is termed *Caw-caw-kew-meena*, (crow-berry), by the Crees.

421. *J. PROSTRATA*, *Pers. enchir.* ii. p. 632. (W.)

It is nearly as common as the other species, grows close to the ground, and sends out flagelliform branches two yards long. It is a very ornamental plant in thin rocky soils.

422. *HIPPOPHAE CANADENSIS*, *Willd.* iv. p. 744. *Pursh.* i. p. 115. (W.B.)

423. *NEGUNDO FRAXINIFOLIUM*, *D. C. prodr.* i. p. 596? *Acer sacch. Frankl. App.* i ed. p. 754. (W.)

Obs. The Saskatchewan is the northern boundary of this tree, and even there pretty good sugar is made from its juice. We saw only the male flowers; and the tree was not in leaf when we were in that quarter.

CRYPTOGAMIA.

FILICES.

424. *EQUISETUM ARVENSE*, *Willd.* v. p. 1. *Pursh.* ii. p. 651. (W.)

425. *E. SYLVATICUM*, *Willd.* v. p. 3. *Pursh.* ii. p. 651. (W.)

426. *E. UMBROSUM*, *Willd.* v. p. 4? (W.)

Characterē specifico quadrat. *Vaginæ* glaucæ dentibus circiter 14 nigro-fuscis, marginibus hyalinis.

427. *E. PALUSTRE*, *Willd.* v. p. 5. *Pursh.* ii. p. 651. (B.)

428. *E. VARIEGATUM*, *Smith. Comp. Fl. Brit.* p. 154. *Eng. Bot.* t. 1987. (B.)
 429. *E. SOIRPOIDES*, *Willd.* v. p. 7. *Pursh.* ii. p. 652. (W.)
 430. *LYCOPodium COMPLANATUM*, *Willd.* v. p. 19. *Pursh.* ii. p. 652. (W.B.)
 431. *L. SELAGO*, *Willd.* v. p. 49. *Eng. Bot.* t. 233. (W.B.)
 432. *L. DENDROIDEUM*, *Willd.* v. p. 21. *Pursh.* ii. p. 653. (W.)
 433. *L. ANNOTINUM*, *Willd.* v. p. 23. *Pursh.* ii. p. 653. (W.B.)
 434. *L. ALPINUM*, *Willd.* v. p. 20. *Eng. Bot.* t. 234. (B.)
 435. *POLYPODIUM VULGARE*, *Willd.* v. p. 172. *Pursh.* ii. p. 658. (W.)
 436. *P. DRYOPTERIS*, *Willd.* v. p. 209. *Eng. Bot.* t. 616. (W.)
 437. *WOODSIA ILVENSIS*, *Pursh.* ii. p. 660. *Nephrodium rufidulum*, *Mich. Am.* ii. p. 269. fide exempl. à D. Reichard. (W.)
 438. *W. GLABELLA*, frondibus (lanceolato-linearibus) pinnatis glaberrimis, pinnis triangularibus pinnatifidis : imis dilatatis : laciniis cuneiformibus, rachi nuda, stipite squamato. *Brown, MS.* (W.)
 439. *ATHYRIUM FRAGILE*, *Aspidium fragile*, *Willd.* v. p. 280. (W.)
 440. *NEPHRODIUM FRAGRANS*, *Aspidium fragrans*, *Willd.* v. p. 253. (W.B.)
 441. *PTERIS GRACILIS*, *Willd.* v. p. 376 ? *Pursh.* ii. p. 668 ? (W.)
 Var. ? nana, fronde unguiculari, pinnis omnibus indivisis.
 442. *CRYPTOGRAMMA ACROSTICHOIDES*, frondibus bipinnatifidis, sterili pinnulis ovalibus crenatis : fertili demum explanatis, soris linearibus discum totum occupantibus. *Brown, ad finem Catalogi.* (W.)

MUSCI.

443. *SPHAGNUM SQUARROSUM*, *Schwægr. Muscor. Frond. Suppl.* i. par. i. p. 49. *Hock and Taylor, Muscol. Brit.* p. 4. (W.B.)
 444. *S. ACUTIFOLIUM*, *Schwægr. Sup.* I. i. p. 15. *Musc. Brit.* p. 4. (W.B.)
 β rufescens. (W.B.)
 γ tenera. (W.B.)
 445. *ANGELANGIUM CILIATUM*, *Schwægr. Sup.* I. i. p. 38. *Musc. Brit.* p. 14. (W.B.)
 446. *TETRAPHIS PELLUCIDA*, *Schwægr. Sup.* I. i. p. 39. *Mich. Fl. Am.* p. 287. *Musc. Brit.* p. 16. (W.)
 447. *ANDREA ALPINA*, *Schwægr. Sup.* I. i. p. 42. *Musc. Brit.* p. 1. (B.)
 448. *SPLACHNUM PARADOXUM*, *β*, *Brown, Suppl. Parry's Voy.* No. 96. p. cccii. (B.)
 449. *S. MNIOIDES*, *Schwægr. Sup.* I. i. p. 48. (B.)
 Hab. Very common on the Barren Grounds, forming tufts, whose roots always include the bones of some small animal.
 450. *S. ANGUSTATUM*, *Schwægr. Sup.* I. i. p. 48. *Musc. Brit.* p. 20. (W.)
 451. *S. BREWERIANUM*, *Schwægr. Sup.* I. i. p. 49. *S. mnioides*. *Eng. Bot.* t. 786. (B.)
 β. minus. (B.)

452. *S. URCEOLATUM*, *Schwægr. Sup. I. i. p. 49.* (B.)
453. *S. VASCULOSUM*, var. *minima*, *Schwægr. Sup. I. i. p. 51. Musc. Brit. p. 21.* (B.)
454. *S. LUTEUM*, *Schwægr. Sup. I. i. p. 55. Wahl. Flor. Lap. p. 308.* (B.)
455. *ENCALYPTA PILIFERA*, *Schwægr. Sup. II. t. 26. Funz. in Sturmii Flor. Germ. Crypt. 15.* (W.B.)
456. *E. CILIATA*, *Musc. Brit. p. 35.* (W.)
457. *WEISSIA CIRRATA*, *Schwægr. Sup. I. i. p. 75. Musc. Brit. p. 46.* (W.)
458. *GRIMMIA OVATA*, *Schwægr. Sup. I. p. 85, t. 24. Musc. Brit. p. 39.* (B.)
459. *G. SUDETICA*, *Schwægr. Sup. I. i. p. 87.* (B.)
460. *G. APOCARPA*, *Schwægr. Sup. I. i. p. 95.* (W.B.)
461. *BARBULA UNGUICULATA*, *Schwægr. Sup. I. i. p. 123. Tortula unguiculata: Musc. Brit. p. 33.* (W.)
462. *TORTULA RURALIS*, *Schwægr. Sup. I. i. 137. Musc. Brit. p. 31.* (W.B.)
463. *TRICHOSTOMUM LANUGINOSUM*, *Schwægr. Sup. I. i. p. 149. Musc. Brit. p. 60.* (W.B.)
464. *DICRANUM GLAUCUM*, *Musc. Brit. p. 52.* (B.)
465. *D. SCOPARIUM*, *Schwægr. Sup. I. i. p. 162. t. 42. Mich. Fl. Amer. p. 297.* (W.)
466. *D. POLYSETUM*, *Schwægr. Sup. I. i. 165. Mich. Fl. Am. p. 297. D. undulatum: Musc. Brit. p. 57.* (W.)
467. *D. SCHRADERI*, var. *major* *Schwægr. Sup. I. i. p. 166.* (B.)
468. *D. FUSCESCENS*, *Turner, Musc. Hiber. p. 60. t. 5. fig. 1.* (B.)
469. *D. ELONGATUM*, *Schwægr. Sup. I. i. p. 171.* (B.)
- Hab.* On the Barren Grounds. This, and the other species of *Dicrana*, form dense tufts on the Barren Grounds, that are very troublesome to pedestrians, and obtain from the Indians the name of women's heads, because, say they, when you kick them they do not get out of the way.
470. *D. POLYCARPUM*, *Schwægr. Sup. I. i. p. 179. Musc. Brit. p. 57.* (B.)
471. *D. PURPUREUM*, *Schwægr. Sup. I. i. p. 183. Mich. Fl. Am. p. 298.* (W.B.)
472. *D. STRICTUM*, *Schwægr. Sup. I. i. p. 188.* (B.)
473. *D. VIRENS*, *Schwægr. Sup. I. i. p. 194. Musc. Brit. p. 34.* (B.)
474. *D. STRUMIFERUM*, *Schwægr. Sup. I. i. p. 194. Musc. Brit. p. 34.* (B.)
- β. prælongum.* (B.)
475. *D. CERVICULATUM*, *Musc. Brit. p. 53.* (B.)
476. *FISSIDENS TAXIFOLUS*, *Schwægr. Sup. I. ii. p. 10. Musc. Brit. p. 54.* (B.W.)
477. *DIDYMODON CAPILLACEUM*, *Musc. Brit. p. 67.* (B.)
478. *ORTHOTRICHUM OBTUSIFOLIUM*, *Schwægr. Sup. I. ii. p. 14. t. L. Hooker and Greville. Monogr. Ed. Journal of Science, I. p. 122. No. 38.* (B.)
479. *O. RUPESTRE*, *Schwægr. Sup. I. ii. p. 27. t. liii. Hook. & Grev. l. c. No. 35.* (B.)
480. *O. CUPULATUM*, *Schwægr. Sup. I. ii. p. 35. t. L. Musc. Brit. p. 72. Hook. and Grev. l. c. No. 1.* (W.B.)

481. *O. ANOMALEM*, *Schwægr. Sup.* I. ii. p. 37. *Musc. Brit.* p. 72. *Hook. & Grev. Mon. l. c.* No. 29. p. 119. (W.B.)
482. *O. HUTCHINSLII*, *Musc. Brit.* p. 73. t. xxi. *Hook. & Grev. l. c.* No. 45. p. 125. (W.)
483. *O. SPECIOSUM*, *Flor. German. Sturmii. Hook. & Grev. Mon. l. c.* No. 44. (W.B.)
484. *O. ELEGANS*, *Schwægr. ined. Hook. & Grev. Mon. l. c.* No. 37. (W.)
485. *BARTRAMIA THYPHYLLA*, *Schwægr. Sup.* I. ii. p. 51. *Musc. Brit.* p. 86. (B.)
486. *B. GRACILIS*, *Musc. Brit.* p. 86. (B.)
487. *B. POMIFORMIS*, *Musc. Brit.* p. 85. (B.)
488. *WEBERIA PYRIFORMIS*, *Schwægr. Sup.* I. ii. 66. *Mich. Fl. Am.* p. 302. (W.)
489. *W. SETANS*, *Schwægr. Sup.* I. ii. p. 67. *Bryum nutans*, *Musc. Brit.* p. 123. (B.)
490. *W. ALPINA*, *Schwægr.* (B.)
491. *FUSARIA HYGROMETRICA*, *Schwægr. Sup.* I. ii. p. 75. *Musc. Brit.* p. 69. (W.)
492. *MEESIA ULIGINOSA*, *Schwægr.* I. ii. p. 82. *Bryum trichodes*, *Musc. Brit.* p. 116. (B.)
493. *TIMMIA MEGALOPOLITANA*, *Schwægr. Sup.* I. p. 84. *T. cucullata*, *Mich. Fl. Am.* p. 304. (B.)
494. *BRYUM CARNEUM*, *Æ. Schwægr. Sup.* I. p. 91. *B. pulchellum, atro-purpureum*, *Wahl. Fl. Lapp.* p. 360. (B.)
495. *B. CESPITICUM*, *Schwægr. Sup.* I. ii. p. 109. *Musc. Brit.* p. 121. (W.B.)
496. *B. VENTRICOSUM*, *Musc. Brit.* p. 124. (W.B.)
497. *B. FALLENS*, *Schwægr. Sup.* I. ii. p. 111. (W.)
498. *MNIUM PALUSTRE*, *Schwægr. Sup.* I. ii. p. 122. *Mich. Fl. Am.* p. 305. (W.)
499. *MN. TURGIDUM*, *Schwægr. Sup.* I. ii. p. 123. *Wahl. Fl. Lapp.* p. 351. (W.)
500. *MN. CRUDUM*, *Schwægr. Sup.* I. ii. p. 127. *Bryum crudum*, *Musc. Brit.* p. 119. (W.)
501. *MN. CUSPIDATUM*, *Schwægr. Sup.* I. ii. p. 132. *Bryum cuspidatum*, *Musc. Brit.* p. 127. (W.)
502. *MN. ROSTRATUM*, *Schwægr. Sup.* I. ii. p. 136. *Bryum rostratum*, *Musc. Brit.* p. 126. (W.)
503. *CLIMACIUM DENDROIDES*, *Schwægr. Sup.* I. ii. p. 141. *Leskea dendroides*, *Mich. Fl. Am.* p. 309. (W.)
504. *NECKERA PENNATA*, *Schwægr. Sup.* I. ii. p. 144. *Mich. Fl. Am.* p. 307. (W.)
505. *LESKEA POLYANTHA*, *Schwægr. Sup.* I. ii. p. 173. (W.)
506. *HYPNUM DENTICULATUM*, *Schwægr. Sup.* I. ii. p. 187. *Var. æ.* *Musc. Brit.* p. 92. (W.B.)
507. *H. STRAMINEUM*, *Schwægr. Sup.* I. ii. p. 213. *Musc. Brit.* p. 97. (W.)
508. *H. SCHREBERI*, *Schwægr. Sup.* I. ii. p. 227. *Musc. Brit.* p. 96. (W.)
509. *H. NITENS*, *Schwægr. Sup.* I. ii. p. 228. *Musc. Brit.* p. 100. (W.)

510. *H. ABIETINUM*, *Schwægr. Sup. I. ii. p. 232. Mich. Fl. Am. p. 316. (B.)*
 511. *H. SPLENDENS*, *Schwægr. Sup. I. ii. p. 237. Mich. Fl. Am. p. 317. (W.B.)*
 512. *H. LUTESCENS*, *Schwægr. Sup. I. ii. p. 237. Musc. Brit. p. 100. (W.)*
 513. *H. STRIATUM*, *Schwægr. Sup. I. ii. p. 238. Musc. Brit. p. 106. (W.)*
 514. *H. PLUMOSUM*, *Schwægr. Sup. I. ii. p. 244. (W.)*
 515. *H. SERPENS*, *Schwægr. Sup. I. ii. p. 260. Musc. Brit. p. 94. (W.)*
 516. *H. CRISTA CASTRENSIS*, *Schwægr. Sup. I. ii. p. 293. Mich. Fl. Am. p. 314. (W.)*
 517. *H. SCORPIOIDES*, *Schwægr. Sup. I. ii. p. 293. Musc. Brit. p. 112. (W.)*
 518. *H. RUGOSUM*, *Schwægr. Sup. I. ii. p. 301. H. rugulosum, Musc. Brit. p. 212. (W.)*
 519. *H. UNCINATUM*, *Schwægr. Sup. I. ii. p. 304. Musc. Brit. p. 111. (W.)*
 520. *H. FLUITANS*, *Schwægr. Sup. I. ii. p. 304. Musc. Brit. p. 98. (W.)*
 521. *POLYTRICHUM COMMUNE*, *Schwægr. Sup. I. p. 314. Musc. Brit. p. 26. (W.B.)*
 522. *P. JUNIPERINUM*, *Schwægr. Sup. I. p. 309. Musc. Brit. p. 25. (W.B.)*
 523. *P. ALPESTRE*, *Schwægr. Sup. I. p. 310. P. juniperinum, var. Musc. Brit. p. 25. (B.)*
 524. *P. PILIFERUM*, *Schwægr. Sup. I. p. 312. (B.)*

HEPATICÆ.

525. *JUNGERMANNIA TAMARISCIFOLIA*, *Schwægr. Prodr. p. 14. Hook. Jung. t. vi. (B.)*
 526. *J. BIDENTATA*, *Schwægr. Prodr. p. 18. Hook. Jung. t. xxv. (B.)*
 527. *J. PULCHERRIMA*, *Schwægr. Prodr. p. 21. J. ciliaris, Hook. Jung. t. lxxv. (W.)*
 528. *J. SETIFORMIS*, *Schwægr. Prodr. p. 21. Hook. Jung. t. xx. (B.)*
 529. *J. COMPLANATA*, *Schwægr. Prodr. p. 22. Hook. Jung. t. lxxxi. (W.)*
 530. *J. NEMOROSA*, *Schwægr. Prodr. p. 23. Hook. Jung. t. xxi. (W.)*
 531. *J. SPHAGNI*, *Schwægr. Prodr. p. 24. Hook. Jung. t. xxxiii. et Sup. t. ii. (B.)*
 532. *J. EMARGINATA*, *Schwægr. Prodr. p. 27. Hook. Jung. t. xxvii. (B.)*
 533. *J. SAXICOLA*, *Schrader. Schwægr. Prodr. p. 27. (B.)*
 534. *J. BICORNIS*, *Schwægr. Prodr. p. 27. (B.)*
 535. *J. BICUSPIDATA*, *Schwægr. Prodr. p. 28. Hook. Jung. t. xi. (B.)*
 536. *J. EXSECTA*, *Schwægr. Prodr. p. 29. Hook. Jung. t. xix. (B.)*
 537. *J. QUINQUEDENTATA*, *Schwægr. Prodr. p. 29. J. barbata, Hook. Jung. t. lxx. (B.)*
 538. *MARCHANTIA POLYMORPHA*, *Schwægr. Prodr. p. 23. Mich. Fl. Am. p. 227. (W.B.)*
 539. *M. CONICA*, *Schwægr. Prodr. p. 34. Engl. Bot. t. 504. (W.)*
 540. *RICCIA NATANS*, *Schwægr. Prodr. p. 38. Engl. Bot. t. . (W.)*

LICHENES.

541. *ARTHONIA ASTROIDEA*, β . *radiata*, *Ach. Syn.* p. 6. (W.)
 542. *SPILOMA VERSICOLOR*, *Ach. Syn.* p. 2. *Eng. Bot.* t. 2076. (W.)
 543. *SOLORINA CROCEA*, *Ach. Syn.* p. 8. Lichen croceus, *Eng. Bot.* t. 498. (B.)
 544. *GVALECTA BRYOPHILA*, *Ach. Syn.* p. 10 & 337. *Flor. Dan.* t. 1351. f. 2. (B.)
 545. *LECIDEA ATRO-ALBA*, *Ach. Syn.* p. 11? (B.W.)
 546. *L. FUMOSA*, *Ach. Syn.* p. 12. Lichen arthrocarpus, *Eng. Bot.* t. 1829. (W.)
 547. *L. LAPICIDA*, *Ach. Syn.* p. 13. *Muhl. Cat.* p. 105. (W.)
 548. *L. CONFLUENS*, *Ach. Syn.* p. 16. *Eng. Bot.* t. 1964. (W.B.)
 549. *L. PARASÆMA*, *Ach. Syn.* p. 17. *Eng. Bot.* t. 1450. *Muhl. Catalog.* p. 105. (W.)
 550. *L. SABULETORUM*, *Ach. Syn.* p. 20. (W.)
 551. *L. ATRO-VIRENS*, *Ach. Syn.* p. 21. (W.B.)
 β . *geographica*, *Ach. Syn.* p. 21. Lichen geographicus, *Eng. Bot.* t. 248. (B.)
 552. *L. OEDERI*, *Ach. Syn.* p. 22. Lichen Oederi, *Eng. Bot.* t. 117. (B.)
 553. *L. ULIGINOSA*, *Ach. Syn.* p. 25? *Eng. Bot.* t. 1466? (B.)
 554. *L. RIVULOSA*, *Ach. Syn.* p. 28. *Eng. Bot.* t. 1737. (B.)
 555. *L. ABIETINA*, *Ach. Syn.* p. 30. (W.)
 556. *L. VERNALIS*, *Ach. Syn.* p. 36. (W.)
 557. *L. DECOLORANS*, β . *granulosa*, *Ach. Syn.* p. 38. *Eng. Bot.* t. 1185. (W.)
 558. *L. LUTEOLA*, *Ach. Syn.* p. 41. Lichen vernalis, *Eng. Bot.* t. 845. (W.)
 559. *L. FUSCO-LUTEA*, Lichen fusco-luteus, *Eng. Bot.* t. 1007. *Lecidea fusco-lutea*,
Ach. Syn. p. 42? (B.)
 560. *L. ANTHRACINA*, *Ach. Syn.* p. 43? (W.)
 561. *L. ICMADOPHILA*, *Ach. Syn.* p. 45. *Muhl. Cat.* p. 105. (B.W.)
 562. *L. EHRHARTIANA*, β . *polytropa*, *Ach. Syn.* p. 47. Lichen polytropus, *Eng. Bot.*
 t. 1264. (B.)
 563. *L. LUCIDA*, *Ach. Syn.* p. 48. Lichen lucidus, *Eng. Bot.* t. 1550. (B.)
 β . *theyota*, *Ach. Syn.* p. 48. On dead wood. (B.)
 564. *L. LUTEO-ALBA*, *Ach. Syn.* p. 49. Lichen luteo-albus, *Eng. Bot.* t. 1426. (W.)
 565. *L. WAHLENBERGII*, *Ach. Syn.* p. 50. *Method. Lich.* t. 2. f. 2. (B.)
 566. *L. CANDIDA*, *Ach. Syn.* p. 50. Lichen candidus, *Eng. Bot.* t. 1138. (B.)
 567. *L. VESICULARIS*, *Ach. Syn.* p. 51. Lichen cœruleo-nigricans, *Eng. Bot.*
 t. 1139. (B.)
 568. *L. DECIPiens*, *Ach. Syn.* p. 52. Lichen decipiens, *Eng. Bot.* t. 1501. (B.)
 569. *CALICEM TIGILLARE*, *Ach. Syn.* p. 55. *Lecidea tigillaris*, *Wahl. Fl. Lapp.*
 p. 468. *Eng. Bot.* t. 1330. (W.B.)
 570. *C. CHLORELLUM*, β . *trabinellum*, *Ach. Syn.* p. 60. Lichen trabinellus, *Eng.*
Bot. t. 1540. (W.B.)

571. *C. DEBILÉ*, *Eng. Bot.* t. 2462. (W.)

572. *C. CLAVICULARE*, *Ach. Syn.* p. 57. (W.)

573. *GYROPHORA PROBOSCIDEA*, β . *arctica*, *Ach. Syn.* p. 65. Tab. 30. fig. 4. (B.)

Thallus monophyllus, umbilicatus, orbicularis, tenuis, in ambitu plerumque lacerus; supra rugis umbilicatus versus majoribus reticulatus, concavus vel convexus et nisi ex rupto margine planus, semper medio umbonem vel umbilicum ostendens; subtus pedicello brevissimo centrali saxo affixus, glaber, ambitum versus levissimè lacunosus, quandoque punctis depressis notatus et rarissimè fibrillis quibusdam instructus. Thalli color brunnescenti-niger et aliquando quasi pulvisculo suffuso fere cinereus; subtus sordidè flavescenti-brunneus interdum cinerascens: utrinque opacus. In aquâ totus pallet. *Apothecia* sessilia, orbicularia, rarius angulata, disco plano, vel convexiusculo, plicis concentricis pulcherrimè notato et margine proprio elevato cincto.

Expl. Iconis. *a.* Superf. supina. *b.* Superf. prona. mag. nat. *c.* Apothecium et portio thalli sub lente visæ.

Hab. On rocks on the Barren Grounds; more abundant towards the Arctic Sea than the following species.

574. *G. HYPERBOREA*, *Ach. Nov. Act. Stockh.* xv. t. 2. f. 2. opt. *Ach. Syn.* p. 66. Tab. 30. fig. 3. (B.)

Thallus lacero-laciniatus, supra densissimè papulato-rugosus, subtus magis aut minus reticulato-lacunosus, glaber. *Apothecia* difformia, angulata, convexa, plicis ut plurimum circinatis notata. Præcedenti affinis et fortassè ejus varietas senilis. (B.)

Expl. Iconis eadem ut in præcedenti.

575. *G. PENNSYLVANICA*, *Ach. Syn.* p. 67. *Muhl. Cat.* p. 105. Tab. 30. fig. 2. (W.B.)

Thallus tenuis umbilicatus, irregulariter expansus, flexuosus, passim erossus, in ambitu lacero-laciniatus supra umbrino-brunneus, plerumque prope umbilicum materiâ quâdam crustaceâ canescens, papulis elevatis, oblongis vel conoideis, obtusis, sparsis, discretis, saccis paginae adversæ respondentibus munitus; subtus lacunosus, punctis crebris elevatis scaber; brunnescenti-niger, ambitum versus pallidior; utrinque opacus. Madefactus aliquantulum pallet et supra olivaceus vel æneo-fuscus evadit.

Apothecia simplicia adpressa, orbiculata vel flexuosa angulataque, disco opaco, plano vel concaviusculo, æquabili interdum ostiolo centrali impresso et margine proprio elevato nitidiusculo cincto. Apothecia aliquando in discis suis alia minora ferunt vel cum aliis confluunt quibus modis formatur apothecium satis magnum disco planiusculo irregulariter plicato, margine communi flexuoso, et angulato cincto. Sunt quoque in thallis quibusdam fortassin vetustioribus apothecia (spuria) dissimilia parva, discreta, aut conferta, discis depressis et marginibus granulato-crenulatis, rugosis, inflexisque. Apothecia vetustiora utriusque generis in ambitu à thallo elevata sunt.

Thallus interdum locos humidus opacos habitans flavescenti-cinereus fit. (B.)

Expl. Icon: eadem ut in præcedenti.

576. *G. MUHLENBERGII*, *Ach. Syn.* p. 67. *Muhl. Cat.* p. 105. Tab. 30. Fig. 1. (W.B.)

Thallus hujus quam trium præcedentium paulo crassius, plerumque polyphyllus, hepatico-brunneus, extrorsum fere nigricans, oblique umbilicatus, flexuosus, prope umbilicum capillaceo-brunneus corrugato-plicatus, plerumque irregulariter expansus, margineque lacerato, hic illic pertusus erosusque; supra glaber, nitidiusculus, foveolis ab apothecis inpletis ambitum versus præcipue impressis; subtus sordide flavescenti-brunneus, minute verrucosus, at fixuris cribriformibus nigrescentibus fere obtectus. *Apothecia* majuscula vix unquam orbiculata, fere semper angulata, et non raro pulchrè stellata, convexa, densissimè plicata non semper in sacculis immersa sed etiam in planâ superficie thalli sessilia. Dantur quoque in eodem thallo apothecia æta (spuria) parva fere orbicularia, disco depresso et margine granulato rugosoque inflexo.

Exp. Icon. eadem ut in præcedenti.

Obs. This and the three preceding species were found in greater or less abundance in all rocky places throughout our journey. We used them all four as articles of food, but not having the means of extracting the bitter principle from them, they proved nauseous to all, and noxious to several of the party, producing severe bowel complaints. The Indians use the *G. Mullenbergii*, rejecting the others, and when boiled along with fish-roe or other animal matter, it is agreeable and nutritious. On the Barren Grounds this lichen is scarce, and we were obliged to resort to the other three, which served the purpose of allaying the appetite, but were very inefficient in recruiting our strength.

577. *G. VELLEA*, *Ach. Syn.* p. 68. *Umbilicaria vellea*, *Misch. Fl. Am. ii.* p. 323. (W.B.)

Thallus crassiusculus, mollissimus, saepe latitudine sesquipedalis, sordide flavescenti-griseus (saepe lente verrucosus) pertusus erosusque, in ambitu sub rotundato-lobatus, lacrusque: sulcus fibrillis densis brevibus, furcatis, nigris, hirsutus. *Apothecia* nunquam inveni.

Hab. On shady and moist rocks, most luxuriant in woods. This is more agreeable to eat than any of the preceding species, but we met with it very sparingly on the Barren Grounds.

578. *OPEGRAPHA MACULARIS*, *Ach. Syn.* p. 72. *Muhl. Cat.* p. 105. (W.)

579. *O. EPIPASTA*, *B.* *microscopica*, *Ach. Syn.* p. 75. *O. microscopica*, *Eng. Bot. t.* 1911. (W.)

580. *VERRUCARIA EPIDERMIDIS*, *Ach. Syn.* p. 89. (W.)

581. *V. STIGMATELLA*, *Ach. Syn.* p. 89. *Eng. Bot. t.* 1891. *Muhl. Cat.* p. 105. (W.)

582. *ENDOCARPON COMPLICATUM*, *Ach. Syn.* p. 102. *Eng. Bot. t.* 593. (B.)

583. *E. VIRIDE* (absque scutellis), *Ach. Lich. Univers.* p. 300. (B.)

584. *THELOTREMA LEPADINUM*, *Ach. Syn.* p. 115. *Lichen inclusus*, *Eng. Bot. t.* 678. (B.)

585. *VARIOLARIA COMMUNIS*, *g. aspergilla*, *Ach. Syn.* p. 131. *Eng. Bot. t.* 2041. *Muhl. Cat.* p. 105. (B.)

586. *URCEOLARIA CINEREA*, *Ach. Syn.* p. 140. *Hoff. Pl. Lich. t.* 20. f. 2. (B.)

587. *LECANORA ATRA*, *Ach. Syn.* p. 146. *Lichen ater*, *Eng. Bot. t.* 949. *Muhl. Cat.* p. 105. (B.)

588. *L. OCLATA*, *Ach. Syn.* p. 148. *Lichen oculatus*, *Eng. Bot. t.* 1833. (B.)

589. *L. PERICLEA*, *Ach. Syn.* p. 150. (W.B.)

590. *L. BADIA*, *Ach. Syn.* p. 154. *Lichen piceus*, *Dicks. Crypt. Fasc. 4. t.* 12. f. 1. (B.)

591. *L. EPIBRYON*, *Ach. Syn.* p. 155. (B.)

592. *L. SUB-FUSCA*, *Ach. Syn.* p. 157. *Eng. Bot. t.* 2109. *Muhl. Cat.* (W.B.)

593. *L. VENTOSA*, *Ach. Syn.* p. 159. *Eng. Bot. t.* 906. (B.)

594. *L. GLAUCOMA*, *Ach. Syn.* p. 165. *Eng. Bot. t.* 2156. (B.)

595. *L. PARELLA*, *γ. upsaliensis*, *Ach. Syst.* p. 169. *Lichen upsaliensis*, *Eng. Bot. t.* 1634. (B.)

596. *L. TARTAREA*, *Ach. Syn.* p. 172? *Lichen tartareus*, *Eng. Bot. t.* 156? (B.)

597. *L. CERINA*, *Ach. Syn.* p. 173. *Lichen cerinus*, *Eng. Bot. t.* 627. *Muhl. Cat.* p. 105. (W.B.)

598. *L. ERYTHRELLA*, *Ach. Syn.* p. 175. (W.)

599. *L. CITRINA*, *Ach. Syn.* p. 176. *Eng. Bot. t.* 1793. (W.)

600. *L. STRAMINEA*, *Ach. Syn.* p. 180. *Wahl. Fl. Lapp.* t. 28. f. 1. (B.)
 601. *L. MINIATA*, *Ach. Syn.* p. 182. *Muhl. Cat.* p. 105. (B.W.)
 602. *L. ELEGANS*, *Ach. Syn.* p. 182. *Lichen elegans*, *Eng. Bot.* t. 2181. (B.)
 603. *L. CERVINA*, *Ach. Syn.* p. 188. *Lichen squamulosus*, *Eng. Bot.* t. 2011.
 (bad) (B.)
 604. *L. LIPARIA*, *Ach. Syn.* p. 190. (B.)
 β. rubina, *Ach. Syn.* p. 190. (B.)
 605. *L. VIRELLA*, *Ach. Syn.* p. 191. *Eng. Bot.* t. 1696. (B.)
 606. *L. CANDELARIA*, *Ach. Syn.* p. 192. *Lichen candelarius*, *Eng. Bot.* t. 1794. (W.)
 β. polycarpa, *Ach. Syn.* p. 192. *Lichen polycarpus*, *Eng. Bot.* t. 1795. (B.)
 607. *L. HYPNORUM*, *Ach. Syn.* p. 193. *Lichen hypnorum*, *Eng. Bot.* t. 740. (B.)
 608. *L. BRUNNEA*, *Ach. Syn.* p. 193. *Lichen brunneus*, *Eng. Bot.* t. 1246. (B.)
 609. *PARMELIA CAPERATA*, b. *cylisphora*, *Ach. Syn.* p. 196. *Muhl. Cat.* (W.)
 610. *P. HERBACEA*, *Ach. Syn.* p. 198. *Lichen lætè virens*, *Eng. Bot.* t. 294. (W.)
 611. *P. OLIVACEA*, *Ach. Syn.* p. 200. *L. olivaceus*, *Eng. Bot.* t. 2180. *Muhl.*
Cat. (W.B.)
 612. *P. SAXATILIS*, *Ach. Syn.* p. 203. *Eng. Bot.* t. 603. *Muhl. Cat.* p. 105. (W.B.)
 613. *P. FAHLUNENSIS*, *Ach. Syn.* p. 204. *Eng. Bot.* t. 653. (B.)
 614. *P. STYGIA*, *Ach. Syn.* p. 205. *Lichen stygius*, *Eng. Bot.* t. 2048. (B.)
 615. *P. AMBIGUA*, *Ach. Syn.* p. 208. (B.)
 616. *P. CONSPERSA*, *Ach. Syn.* p. 209. *Muhl. Cat. Eng. Bot.* t. 2097. (W.B.)
 617. *P. MUSCIGENA*, *β. lenta*, *Ach. Syn.* p. 213. (B.)
 618. *P. PULVERULENTA*, *Ach. Syn.* p. 214. *Eng. Bot.* t. 2063. *Muhl. Cat.* (W.)
 619. *P. AIPOLIA*, *Ach. Syn.* p. 215. *Muhl. Cat.* (W.)
 620. *P. STELLARIS*, *Ach. Syn.* p. 216. *Muhl. Cat.* (W.)
 621. *P. CYCLOSELIS*, *Ach. Syn.* p. 216. (W.B.)
 622. *P. PHYSODES*, *Ach. Syn.* p. 218. *Muhl. Cat. cum scutellis.* (W.B.)
 γ. platyphylla, *Ach. Syn.* p. 218. *absque scutellis.* (B.)
 623. *BORRERA CILIARIS*, *Ach. Syn.* p. 221. *Muhl. Cat.* (W.B.)
 624. *B. TENELLA*, *Ach. Syn.* p. 221. (W.)
 625. *CETRARIA JUNIPERINA*, *Ach. Syn.* p. 226. *Muhl. Cat.* p. 106. *cum scutellis.* (B.)
 β. Pinastri, *Ach. Syn.* p. 226. (B.W.)
 626. *C. SEPINCOLA*, *Ach. Syn.* p. 226. *cum scutellis.* (W.B.)
 627. *C. NIVALIS*, *Ach. Syn.* p. 228. *cum scutellis.* (B.)
 628. *C. CUCULLATA*, *Ach. Syn.* p. 228. *cum scutellis.* (B.)
 629. *C. ISLANDICA*, *Ach. Syn.* p. 229. *Muhl. Cat.* p. 106. *cum scutellis.* (W.B.)
 630. *C. RICHARDSONII*, (*Hooker, M.S.*) *thallo brunneo omnino libero (arhizo): laciniis dichotomis linearibus, apotheciis marginalibus flavescenti-brunneis.* *Tab. 31.* (B.)

Thallus coriaceus prostratus, angustifolius, divaricato-bi-pinnatifidus aut dichotomè sinuato-bipartitus, supra convexus, rubescenti-brunneus nitidus, subtus canaliculatus opacus pallidior fere canescens, sed ma-

culis magnis irregularibus ejusdem substantiæ colorisque ac pagina superior interspersis. *Lacinie* stellatim exterrisimè expansæ: ultimæ angustiores plerumque divaricato-furcate. Margo thalli integerrimè aut apertè granulato-lenticulatus etiam in siccò revoluti, in humido ita convolvitur ut lacinias tubulosas reddat. Exsuccatione iterum exvolvuntur. *Apothecia* in margine thalli sparsa, in intio concava margine inflexo, non amplà sub-pellicellatà flexuosa margineque irregulariter reflexo; supra laminà proligerà flavescens-brunneâ, nitidâ, margine thallide eam non excedente sub-cinctâ subtilis et paginâ thalli superiori formata. Anulus apotheciorum granulatus repandus aut etiam fissus semper valde irregularis et modo Cetrariarum sub-similis. Thallus in siccò fragilis vix tamen rigidus, malefactus pallidè totus et ejus apices interdum cinereo-virides hant. Sunt quosque specimina quorum apices colorem viridem etiam in siccò conservant. In nuda terra latè pulvinatim expansus est sed nulla radice humo affixus. Rarius fructificat.

Expl. Icon. 1. Superf. supina, 2. Superf. portionis thalli prona mag. nat. 3. 4. 5. Apothecia sub lente visa.

Hab. On the Barren Grounds, generally in Rein-deer tracks. It was not found to the southward of Great Slave Lake.

631. *PELTIDEA SCUTATA*, *Ach. Syn.* p. 237. *Eng. Bot.* t. 1834. *Muhl. Cat.* (W.)

632. *P. APHTHOSA*, *Ach. Syn.* p. 238. *Muhl. Cat.* (W.B.)

633. *NEPHROMA POLARIS*, cum scutellis. *Ach. Syn.* p. 241. (W.B.)

634. *N. RESUPINATA*, *Ach. Syn.* p. 241. (W.)

635. *EVERNIA TRUNASTRI*, *Ach. Syn.* p. 245. *Eng. Bot.* t. 859. *Muhl. Cat.* (W.)

636. *DEFOLIAREA ARCTICA*, thallo sulphureo-flavo nitido fistuloso, apotheciis hepatico-brunneis, Tab. 31. *D. rugosa*, *Brown, Ross's Voyage?* (B.)

Ex thallo vetusto fistuloso prostrato surculi subulato-ventricosi exsurgunt, sæpe cuspidatos, sese inter nubesque orientes; thallo primordiali destructo hi surculi thallos erectos fere palmares sulphureo-flavos, ad basin flavescens-brunneos sapsissime simpliciusculus efficiunt, nunc tamen ramum unum vel alterum edunt aut forci extant, interdum nec non apicibus casu exisis, ramuli excreseunt poletias *Cenomyceum* quarundam similes. Thallus membranaceus extus nitidiuseculus, obsolete lacunosus sæpe punctis obscure brunneocenti-nalis maculatus, intus laciniosus, niveo-albus tpeas, absque septis; nunc integerrimus, nunc quo vel altero foramine perforatus. *Apothecium* ex laminâ proligerâ planâ, nitidâ castaneo vel hepatico-brunneâ in apicem rami posita, margineque obsolete sub-crenulato ex thallo crenulato facto, formatum. Humiditate laminâ proligerâ melleo-flava fit.

Expl. Icon. 1. 2. Thalli steriles, 3. 4. 5. Thalli fructiferi mag. nat. 6. Sectio apicis thalli cum apothecio.

Obs. For this beautiful additional plate I am indebted to the friendship and liberality of Dr. Hooker, who made the drawings, and had them engraved at his own expense.

637. *CENOMYCE CERVICORNIS*, *Ach. Syn.* p. 251. *Eng. Bot.* t. 2574. (B.)

638. *C. PYXIDATA*, *Ach. Syn.* p. 252. *Muhl. Cat.* (W.B.)

639. *C. FIMBRIATA*, *Ach. Syn.* p. 254. *Eng. Bot.* t. 2438. (B.W.)

f. prolifera, *Ach. Syn.* p. 256. (W.B.)

640. *C. GONOREGA*, h. polypæa, *Ach. Syn.* p. 260. *Muhl. Cat.* (W.B.)

641. *C. ECMOCYNA*, a. gracilis, *Ach. Syn.* p. 261. (B.)

642. *C. OXYCERAS*, *Ach. Syn.* p. 264. (B.)

β. cladonioides, *Ach. Syn.* p. 264. (B.)

643. *C. DEFORMIS*, *Ach. Syn.* p. 268. *Eng. Bot.* t. 1934. *Muhl. Cat.* (W.B.)

644. *C. COCCIFERA*, *Ach. Syn.* p. 269. *Eng. Bot.* t. 2051. *Muhl. Cat.* (W.B.)

645. *C. PARECHA*, *Ach. Syn.* p. 272. *Fl. Dan.* t. 1356. *f. 2. Muhl. Cat.* (W.B.)
 646. *C. RANGIFERINA*, *Ach. Syn.* p. 277. *Muhl. Cat.* p. 106. (W.B.)
 δ. pungens, *Ach. Syn.* p. 278. *Lichen pungens*, *Eng. Bot.* t. 2444. (W.B.)
 647. *CERANIA VERMICULARIS*, *Brown. Supp. Parry's Voy.* p. cccvii. *Ach. Syn.* p. 278. *Cenomyce? vermicularis*, *Frankl. Journ. App.* 1 ed. No. 625. p. 762. (B.)
 648. *STEREOCAULON PASCHALE*, *Ach. Syn.* p. 284. *Muhl. Cat.* (W.B.)
 649. *SPHEROPHORON COMPRESSUM*, *Ach. Syn.* p. 287. (B.)
 650. *ALECTORIA JUBATA*, *Ach. Syn.* p. 591. *Eng. Bot.* t. 1880. *Muhl. Cat.* (W.)
 δ. chalybeiformis, *Ach. Syn.* p. 593. (B.)
 651. *RAMALINA FASTIGIATA*, *Ach. Syn.* p. 296. *Eng. Bot.* t. 1890. *Muhl. Cat.* (W.B.)
 652. *R. FARINACEA*, *Ach. Syn.* p. 297. *Eng. Bot.* t. 889. (W.B.)
 653. *CORNICULARIA TRISTIS*, *Ach. Syn.* p. 299. (B.)
 654. *C. DIVERGENS*, *Ach. Syn.* p. 300? *Lichen divergens*, *Wahl. Fl. Lapp.* p. 439? (B.)
 655. *C. OCHROLEUCA*, *Ach. Syn.* p. 301. *Cum scutellis.* (B.)
 656. *C. PUBESCENS*, *Ach. Syn.* p. 302. *Eng. Bot.* t. 2318. (B.)
 657. *USNEA FLORIDA*, *Ach. Syn.* p. 304. *Muhl. Cat.* (W.)
 658. *U. PPLICATA*, *Ach. Syn.* p. 305. *Eng. Bot.* t. 257. *Muhl. Cat.* p. 106. (W.)
 γ. hirta, *Ach. Syn.* p. 305. *Eng. Bot.* t. 1354. *Muhl. Cat.* (B.)
 659. *COLLEMA NIGRUM*, *Ach. Syn.* p. 308. *Lichen niger*, *Eng. Bot.* t. 1980. (B.)
 660. *C. SATURNINUM*, *Ach. Syn.* p. 320. *Eng. Bot.* t. 1980. (B.)
 661. *LEPRARIA CHLORINA*, *Ach. Syn.* p. 329. *Eng. Bot.* t. 2038. *Muhl. Cat.* (W.B.)

FUNGI*.

662. *SPHERIA CONCENTRICA*, *Pers. Syn. Fung.* p. 8. *Muhl. Cat.* (W.)
 663. *S. DISCIFORMIS*, *Pers.* p. 24. *Muhl. Cat.* *S. depressa*, *Sowerby.* *Nemaria disciformis*, *Gray. Nat. Arr. Brit. Pl.* (W.)
 664. *HYSTERIUM PINASTRI*, *Pers. Addend.* p. xxviii. (W.)
 665. *LYCOPERDON PRATENSE*, *Pers.* p. 142. *Muhl. Cat.* (W.)
 666. *L. PERLATUM*, var. *Pers.* p. 145. (W.)
 667. *SCHIZOPHYLLUM COMMUNE*, *Fries. Syst. Myc.* i. p. 330. *Agaricus alneus*, *Pers.* p. 485. *Muhl. Cat.* (W.)
 668. *DÆDALEA SERPENS*, *Fries.* i. p. 340. (W.)
 669. *POLYPORUS VARIUS*, *Fries.* p. 352. *Boletus nummularius*, *Pers.* p. 535. (W.)
 670. *P. BETULINUS*, *Fries.* i. p. 358. *Boletus betulinus*, *Pers.* p. 535. (W.)
 671. *P. VELUTINUS*, *Fries.* i. p. 368. *Boletus velutinus et lutescens*, *Pers.* p. 539. *Muhl. Cat.* (W.)

* The fungi were determined by the acute mycologist, Dr. Greville, author of the Scottish Cryptogamic Flora.

672. *P. ABIETINUS*, *Fries*. i. p. 370. *Boletus abietinus*, *Pers*. p. 541. (W.)
 673. *P. CINNABARINUS*, *Fries*. i. p. 371. *Boletus cinnabarinus*, *Pers*. 540. (W.)
 674. *HYDNUM FAGINÆUM*, *Fries*. i. p. 473? (W.)
 675. *THELEPHORA PURPUREA*, *Pers*. p. 571. (W.)
 676. *TH. AMORPHA*, *Greville*. *Peziza amorpha*, *Pers*. p. 657. (W.)
 677. *TREMELLA MESENTERICA*, *Pers*. p. 622. *Muhl. Cat.* (W.B.)
 678. *PEZIZA SARCOIDES*, *Pers*. p. 633. *Muhl. Cat.* p. 108. (W.)
 679. *P. POPULNEA*, *Pers*. p. 672. (W.)
 680. *ERINOM DETULE*, *Greville*, *Ed. Philos. Journ.* v. 6. p. 77. t. 3. f. 1. (W.)

ALGÆ.

681. *OSCILLATORIA MURALIS*, *Agardh*. *Syn. Alg. Scand.* p. 108. (W.B.)
 682. *CONFERYA GLOMERATA*, *Agardh*. p. 89. *Muhl. Cat.* (W.)
 683. *ULVA CRISPA*, *Agardh*. p. 43. *Lightfoot. Fl. Scot.* p. 972. (B.)
 684. *U. MONTANA*, *Eng. Bot.* t. 2193. (exclud. *Syn. Palmellæ alpicolæ Lyngb.*)
Palmella rupestris, *Lyngbye*, *Hydrophytolog. Dan.* (excludend. *Tremell. sab. et Ulv. rupestris*, *Eng. Bot.*) (B.)

685. *FUCUS CERANOIDES*, *Wahl. Fl. Lapp.* p. 490. (B.)

Exclusive of a *Conferva*, and the fragment of a *Floridea* (*Lam.*), this was the only alga we observed in the Arctic Sea.

686. *FUCUS AGARDHII*, *Hooker. App. Parry's Second Voy. ined.* (W.)

Hab. Hudson's Bay.

687. *ALGARUM GENUS??* *Confervis simplicissimis et Tremellæ cruentæ (Eng. Bot.) quodammodo affine?? Brown, List of Plants, Ross's Voy. ed. 2da. Uredo nivalis, Bauer. Leparia kermesina, Baron Wrangel, Kongl. Vetensk. Acad. Handlinger, fôr år 1823, 1re part. p. 71. (quoted from Bull. des sciences naturelles, Sept. 1824, p. 56.) Roto-coccus nivalis, Agardh et Palmella ——— Hooker. Ed. Journ. of Science, vol. 1. p. 383. and Bot. App. Parry's 2d Voy. ined. (W.B.)*

The researches of the learned and acute naturalists above quoted, induce us to refer to the *Red Snow*, of which such extensive patches were seen by Capt. Ross, a *red substance* resembling a *leparia*, which was observed in lat. 60°. at Moose-deer Island, on Slave Lake, upon fragments of mountain limestone, and at Fort Enterprise, lat. 64½°. encrusting very sparingly clods of earth within the channels of mountain-torrents and upon the margin of the river, and which, in the spring, communicated its colour to the melting snow. The coloured patches observed by us were not above a few inches in extent.

ARRANGEMENT OF THE PLANTS IN THE PRECEDING LIST, BY NATURAL FAMILIES.

| FAMILIES. | | | | | FAMILIES. | | | | |
|--|-----|--------------------|---------------------|---------------------|---|-----|--------------------|---------------------|---------------------|
| ACOTYLEDONES. | | | | | DICOTYLEDONES, continued. | | | | |
| Total No. of Species. | | HABITATS. | | | Total No. of Species. | | HABITATS. | | |
| | | Woody District. | Barren District. | Common District. | | | Woody District. | Barren District. | Common District. |
| 1. Fungi (from No. 662 to 780) | 19 | 18 | 54 | 39 | 9. Plantaginaceae (43, 44) | 3 | 2 | 1 | 1 |
| 2. Lichenes (51—661) | 121 | 28 | 5 | 1 | 10. Plumbaginaceae (102) | 9 | 7 | 1 | 1 |
| 3. Characeae (667) | 8 | 2 | 5 | 1 | 11. Primulaceae (55—60, 62, 129) | 2 | 1 | 1 | 1 |
| 4. Characeae (667) | 8 | 2 | 5 | 1 | 12. Lentibulariaceae (5, 6) | 5 | 5 | 5 | 5 |
| 5. Hepaticae (525—540) | 16 | 5 | 10 | 1 | 13. Labiaceae (7, 237—240) | 11 | 4 | 5 | 2 |
| 6. Mimosaceae (543—544) | 82 | 33 | 32 | 17 | 14. Scrophulariaceae (241, 251, 4) | 5 | 3 | 1 | 1 |
| 7. Mimosaceae (545—546) | 8 | 7 | 1 | 1 | 15. Boraginaceae (50—54) | 1 | 1 | 1 | 1 |
| 8. Lycopodiaceae (430—434) | 5 | 5 | 1 | 1 | 16. Hydrophyllaceae (64) | 1 | 1 | 1 | 1 |
| 9. Equisetaceae (424—429) | 266 | 98 | 105 | 63 | 17. Polemoniaceae (68) | 5 | 5 | 5 | 5 |
| | | | | | 18. Gentianaceae (61, 89—92) | 1 | 1 | 1 | 1 |
| | | | | | 19. Apocynaceae (88) | 11 | 4 | 4 | 4 |
| | | | | | 20. Ericaceae (142—150, 416) | 4 | 1 | 1 | 1 |
| | | | | | 21. Vaccinaceae (134—137) | 5 | 3 | 3 | 3 |
| | | | | | 22. Monotropaceae (151—155) | 5 | 3 | 3 | 3 |
| | | | | | 23. Campanulaceae (55, 66) | 53 | 35 | 13 | 5 |
| | | | | | 24. Compositae (229—352) | 2 | 2 | 2 | 2 |
| | | | | | 25. Valerianaceae (10) | 2 | 2 | 2 | 2 |
| | | | | | 26. Rubiaceae (41, 42) | 10 | 10 | 10 | 10 |
| | | | | | 27. Caprifoliaceae (45, 46, 68—72, 98, 99, 251) | 4 | 4 | 4 | 4 |
| | | | | | 28. Anilaceae (101) (94—97) | 19 | 12 | 4 | 3 |
| | | | | | 29. Umbelliferae (141, 281—298) | 5 | 3 | 2 | 1 |
| | | | | | 30. Loganiaceae (1, 2, 389) | 28 | 23 | 3 | 2 |
| | | | | | 31. Magnoliaceae (130—133) | 5 | 5 | 5 | 5 |
| | | | | | 32. Rosaceae (184—211) | 14 | 4 | 6 | 4 |
| | | | | | 33. Grossulariaceae (74—79) | 1 | 1 | 1 | 1 |
| | | | | | 34. Saxifragaceae (93, 100, 140, 156—165) | 1 | 1 | 1 | 1 |
| | | | | | 35. Rhamnaceae (73) | 1 | 1 | 1 | 1 |
| | | | | | 36. Geraniaceae (423) | 1 | 1 | 1 | 1 |
| | | | | | 37. Aceraceae (276) | 1 | 1 | 1 | 1 |
| | | | | | 38. Geraniaceae (103) | 17 | 8 | 6 | 3 |
| | | | | | 39. Linaceae (183) | 41 | 32 | 6 | 1 |
| | | | | | 40. Caryophyllaceae (166—182) | 24 | 13 | 10 | 1 |
| | | | | | 41. Cistaceae (183) | 2 | 2 | 2 | 2 |
| | | | | | 42. Violaceae (80—85) | 45 | 27 | 18 | 10 |
| | | | | | 43. Polygalaceae (279, 980) | 2 | 2 | 2 | 2 |
| | | | | | 44. Cruciferae (232—275) | 2 | 2 | 2 | 2 |
| | | | | | 45. Funariaceae (277, 278) | 2 | 2 | 2 | 2 |
| | | | | | 46. Papaveraceae (213) | 2 | 2 | 2 | 2 |
| | | | | | 47. Nymphaeaceae (214, 215) | 22 | 15 | 4 | 3 |
| | | | | | 48. Ranunculaceae (216—236) | 344 | 231 | 73 | 40 |
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* Several *Poa*, included in this table, are not named in the preceding list, owing to the specimens being too imperfect for determination. The same remark applies to the *Salicaceae*, and some other families.

ADDENDA, BY ROBERT BROWN, F.R.S.

EUTOCA. *Brown.*

STAT. LINN. Pentandria Monogynia, post Hydrophyllum.

CHAR. GEN. Calyx 5-partitus, persistens. Corolla subcampanulata; membranulæ tubi decem, per paria filamentis alternantes. Stamina exserta. Stylus bifidus. Capsula polysperma, unilocularis, bivalvis, valvis indivisis medio placentiferis.

ORD. NAT. Hydrophyllæ, *Brown in* (Prodr. Fl. Nov. Holl. 492.) Bot. Regist. 242. post Phaceliam.

CHAR. GEN. Calyx quinquepartitus, sinibus edentulis. Capsula polysperma.

Herbæ annuæ, pubescentes, eglandulosæ. Folia alterna, sæpius pinnatifida, nunc indivisa! Racemi terminales et quandoque e summis alis, secundi, ebracteati, novelli spiritaliter revoluti.

Obs. Ad hoc genus, a coordinatis (Hydrophylo, Nemophila, Ellisia, Phacelia,) diversum ovulis placentæ singulæ numerosis (unde nomen), pertinent *E. Menziesii*, erecta, foliis linearibus integerrimis nonnullis quandoque incis, ovulis placentæ singulæ viginti pluribus,) quæ forsan Hydrophyllum lineare, *Pursh. Am. l. p. 134.* et *E. parviflora* diffusa, foliis pinnatifidis trifidisve; superioribus quandoque indivisis lanceolatis, ovulis placentæ singulæ 6—8,) quæ Placelia parviflora, *Pursh. Am. l. p. 140.* Polemonium dubium, *Linn.*

EUTOCA FRANKLINII, *Tab. 27.*

Eutoca erecta, foliis pinnatifidis bipinnatifidisve, ovulis placentæ singulæ viginti pluribus.

Hab. Abundantly amongst trees that have been destroyed by fire, on the banks of the river Mississippi.

Herbæ annua, erecta pubescens 6-10-uncialis. Radix descendens subramosa. Caulis simplicissimus teres cavus, crassitie pennæ columbinæ, fuscus, pilis acutis tenuibus patulis pubescens. Folia radicalia conferta, caulina alterna; omnia petiolata exstipulata pinnatifida (in plantis præcærioribus bipinnatifida), circumscriptione lanceolata, lacinii lanceolatis integerrimis, inferioribus quandoque dentatis incisive, plana utrinque viridia pilisque caulinis similibus pubescentia. Petioli foliis breviores super canaliculati basi parum dilatata semiaimplexanti. Spicæ racemosa breves secunda, ebracteate, novellæ arcuato-recursæ, approximatae, terminales et e summis alis.

Calyx monophyllus, æqualis, quinquepartitus sinibus edentulis, foliaceus, persistens; lacinii lineares acutiusculæ planæ, trinerviæ nervis lateralibus margini approximatis medio venoso, hirsutæ pilis acutis strictis marginalibus crebrioribus longioribusque.

Corolla monopetala, hypogyna, regularis, subcampanulata, calyce sesquilingior, glabra limbo extus pubescente consperso, cærulea immaculata, siccatione sæpius albescent, decidua. Tubus intus nervis 15, ternatim cum staminibus alternantibus, lateralibus ternationis singulæ infra medium auctis membranula lineari imberbi apice subtruncato medium fere tubi attingenti, basi ad ortum filamentis respondentis producta et cum

eodem fere confluenti, versus nervum medium conniventi. *Faux* nuda. *Limbus* tubo brevior, 5 partitus, æqualis, patens, lobis subrotundis integerrimis planis, venosis venis anastomosantibus, æstivatione imbricatis gemma obtusa. *Stamina* 5, epipetala, æqualia, limbum corollæ paulò superantia. *Filamenta* prope basin tubi inserta cum limbi laciniis alternantia, filiformia, basi parum dilatata, pilosiuscula pilis longiusculis sparsis in ipsa dilatata basi crebrioribus, æstivatione induplicata. *Antheræ* ovali-oblongæ imberbes, incumbentes, basi semibifidæ lobis approximatis, loculis parallelo-contiguis medio longitudinaliter dehiscens. *Pollen* sphaericum simplex læve, in cumulo albicans.

Pistillum altitudine staminum. *Ovarium* liberum, sessile ovatum pilosum, basi auctum disco annulari adnato, uniloculare, placentis duabus parietalibus semiseptiformibus cavitatem fere bipartientibus, polyspermis lateribus ovuliferis ventre plano nudiusculo: *ovulis* plurimis (30 pluribus) in singula placenta confertim nec utrinque seriatim affixis. *Stylus* 1, filiformis pilosiusculus, semibifidus, laciniis filiformibus æqualibus modice patentibus glabris. *Stigmata* obtusa papulosa ipsis apicibus laciniarum styli paulo crassiora.

Capsula calyce persistenti parum aucto cincta eoque paulò brevior, ovata modice ventricosa, pilosa, unilocularis, bivalvis, valvis indivisis medio placentiferis, placentis adnatis longitudine fere loculi, lateribus seminiferis ventre nudiusculo. *Semina* numerosa in singula placenta viginti plura maturescentia, parva, circumscriptione ovalia, trigona angulis anguste alatis, areolata fusca, nucleo ovali.

TABULÆ 27. EXPLICATIO.

EUTOCA FRANKLINII, magnitudine naturali cum foliis duobus separatis, quorum alterum bipinnatifidum ad procerius alterum ad nanum exemplar pertinet.

Sequentes omnes ad lentem auctæ.

- a. ejusdem. Calyx apertus cum Pistillo.
- b. ——— Corolla aperta exhibens paria quinque membranarum tubi et Stamina cum iisdem alternantia.
- c. ——— Anthera cum portione filamenti.
- d. ——— Ovarii sectio transversalis exhibens placentas duas parietales polyspermas.
- e. Capsula haud penitus matura.
- f. Capsulæ sectio transversalis.
- g. ——— Semen.
1. *EUTOCÆ MENZIESII*, Capsula matura aperta. 2. Ejusdem Capsulæ valvula altera exhibens placentam seminibus denudatam. 3. Ejusdem Semen. 4. Idem testa remota. 5. Sectio longitudinalis Albuminis Embryonem ostendens.

HEUCHERA, *Linn.*

Pentandria Digynia. Flores pentapetali, superi, capsulares, cum Vahlia.

CHAR. GEN. Caps. unilocularis, placentis 2, parietalibus adnatis polyspermis. *Calyx* 5-fidus (nunc inæqualis), æstivatione imbricata.

ORD. NAT. Saxifrageæ inter Tellimam et Vahliam.

CHAR. GEN. Calyx 5-fidus, æstivatione imbricata. *Petala* indivisa. *Stamina* 5. *Ovarium* uniloculare, placentis duabus adnatis polyspermis. *Styli* 2. *Capsula* seminfera, flore emarcido coronata, birostris, inter rostra dehiscens.

Herbæ perennes, sæpius acaules. Folia radicalia conferta, elongato-petiolata, cordata, sublobata lobis serrato-incisis; stipulis lateralibus infra adnatis apicibus distinctis; caulina, dum adsunt, alterna, minora, brevius petiolata. Scapi paniculati, pedunculis trifidis basi unibracteatis, divisis bibracteatis.

Obs. I. In ordine Saxifragearum locus *Heuchera* est inter Mitellam grandifloram *Pursh.* (Telliman nob.) convenientem capsulae unilocularis binostris dimidio supero flore persistente facto, diversam staminibus decem, petalis laciniatis; et *Vahlia Thunb.* (cujus certè species gemina est *Oldenlandia pentandra Ret.* que *Oldenlandia Smith in Rees, Cyclop.*) similem floribus pentandris, petalis indivisis, et capsulae unilocularis dehiscentia, distinguendam placentis ab apice cavitatis pendulis solatis, aestivatione valvata calycis et habitu diversissimo.

Obs. II. A Saxifragis transitus haud difficilis ad *Ribes* structurae floris et ovarii admodum simile *Heuchera*. Diversum stylo semibifido, fructu baccato, albumine densiore, et habitu. Attamen vel in eodem prorsus tamhaecum *Ribe* includenda, vel in proximo ordine (*Escalloniae*) disponenda *Escallonia Matis.* *Stereoxylen Ruiz et Pavon.* et nonnulla genera inedita Novae Hollandiae, nec non *Anopterus Labill. (et Presl. Fl. Nov. Holl. 457.)* cujus petala distincta, calyci inserta et ovarii capsulaeque basis albae. Sed *Anopteri* cum Saxifragis affinitas mediante *Heuchera* in fructificatione saltem obvia, obstante quidem habitu omnino cum *Escallonia* et non *Canoniaceis* nec Saxifragis conveniente.

HEUCHERA RICHARDSONII, Tab. 29.

Heuchera calycis limbo inæquali obliquo.

Hab. On the rocky banks of rivers from lat. 54° to 64° north.

Desc. *Herba* acaulis, perennis. Folia radicalia conferta, elongato-petiolata, cordata, diametro sesquipedali, semisepemloba, lobo medio majore, omnibus inæqualiter serrato-incisis, super scabra subter laevia, secundum nervos venosque primarias pubescentia pilis brevissimis acutis, eglandulosa. Petioli filiformes, truncati, pilosiusculi, scabres, antice canaliculati. Stipulae laterales infra adnatae, apicibus lingulatis scariosis subciliatis. Scapus simplex, erectus, pedalis—sesquipedalis, gracilis, teres, striatus, pilosiusculus, dimidio inferiore pilis acutis divaricatis glandisque intermixtis paucissimis, superiore pubescentia glanduloso-capitata copiosa pilisque acutis rarioribus. Panicula laxa thyrsoides, angusta, ramis alternis bractea lineari apice bi-tri-loba subtensis, trifidis pedicellis lateralibus 1-2-floris dimidio inflorescentiae, divisis singulis bibracteatis, bracteis lineari subulatis glanduloso-pubescentibus.

Calyx monophyllus, campanulatus, irregularis, persistens, extus glandulis subsessilibus parvis copiosis tectus: limbus obliquus 5-fidus, laciniis obtusis obovatis magnitudine subaequalibus sed ob fauces obliquitatem albedine inaequalibus, duabus altioribus paribus impari demissiori, omnibus quinque nervis nervosa, aestivatione imbricatis duabus altioribus reliquis equitantibus.

Petala 5, ipsa simul calycis inserta, unguiculata, indivisa, brevè ciliata, vix calycis laciniis superantia, persistentia, altera lacina cuneato-obovata, demissiora sublaevigata, omnia trinervia nervis extus venosis unguibus angustia linearibus.

Stamina 5, summo tubo calycis inserta, ejusdem laciniis opposita, petala vix superantia, persistentia. Filamenta subulata, glabra, laciniis calycis altitudine proportionata. Antherae incumbentes, brevè ovales, obtusae, loculis parallelis contiguis, longitudinaliter dehiscentibus. Pollen lateritium.

Pistillum: Ovarium semispermum, uniloculare, placentis duabus parietalibus longitudinaliter adnatis promissis, cum stylis alternantibus, polyspermis: axilla indefinitè numerosis confertis superficiem ventralem lateraque placentis operientibus. Styli duo, subulati, glabri, altitudine staminum. Stigmata obtusa imberbia, apicibus stylorum vix crassiora.

Capsula semi-infera, dimidio supero brevior calyce aucto persistente cum petalis vix emarcidis et filamentis sæpe antheris orbatis tecto, stylis rostrato, apice bilobo lobis intus dehiscentibus, unilocularis, placentis proportionatim auctis.

Semina numerosa, sessilia, ovalia, punctis elevatis acutis longitudinaliter seriatis aspera, altera extremitate obtusior. *Testa* crasso-membranacea, fusca, facile separabilis. *Membrana interna* albumini arcte adhaerens absque chalaza rapheve manifesta. *Albumen* semini conforme, album, carnosum, molle, oleosum. *Embryo* minutus, subovatus albus ad albuminis extremitatem obtusior situs. *Cotyledones* brevissimæ. *Radicula* processu capillari terminata, centrifuga.

TABULÆ 29. EXPLICATIO.

HEUCHERA RICHARDSONII, magnitudine naturali. i. basis dilatata petioli cum stipulis infra adnatis.

Figuræ sequentes ad lentem plus minus auctæ.

a. Flos plurimum auctus. b. Idem hinc longitudinaliter apertus. c. Ovarium longitudinaliter sectum placentas parietales adnatas accurate, sed perperam stylis infra connatos, exhibens. d. idem transversè sectum. e. Capsula matura flore stylisque coronata, paulo tantum aucta. f. Ejusdem sectio transversalis. g. Semen plurimum auctum. h. Idem testa orbatum.

CRYPTOGRAMMA. Brown.

ORD. NAT. Filices. *Gyratæ* (Polypodiaceæ) inter Onocleam et Lomariam.

CHAR. GEN. *Sori* lineares (v. subrotundi) venulis costæ (pinnulæ) obliquis insidentes. *Capsulæ* pedicellatæ, receptaculo communi elevato nullo. *Involucrum commune* (pinnulæ) marginale, continuum, disco venoso, margine scarioso libero sæpius induplicato; *partiale* nullum.

Filiculæ glabellæ. Frondibus *cæspitosis bi-tripinnatifidis: centralibus mutato-contractis fertilibus, exterioribus sterilibus*. *Involucris dorsum totum pinnulæ tegentibus*. *Capsulis breve pedicellatis, annulo incompleto*. *Sporulis obtuse trigonis, lævibus*.

Obs. Typus generis est *Cryptogramma acrostichoides*, sed character constructus pro receptione *Pteridis crispæ auctor*, quæ dubia quidem species, ob soros abbreviatis potius subrotundos quam lineares, venulas terminantes sinum ferè involucri occupantes et cito confluentes, tunc æmulantes sorum linearem continuum costæ parallelum *Pteridis*, cum cujus speciebus pinnulis angustatis involuero omnino tectis, habitu benè satis convenit. C. acrostichoides habitu et sororum dispositione et forma *Grammitidibus* nonnullis præsertim *G. leptophyllæ* analogæ, diversa frondibus fertilibus distinctis et præsentia involucri dorsum totum pinnulæ tegentis: His notis autem *Cryptogramma* convenit cum *Pteridi thalictroidi Swartz* (à nobis tredecem abhinc annis in *Prodr. Fl. Nor. Holl.* i. p. 154, uti genus distinctissimum indicata.) In hoc genere (*Teleozoma nob.*). *Capsulæ* sessiles, annulo completo latissimo, distinctæ in serie simplici insident venis costæ parallelis, utrinque vel solitariis marginalibus, vel binis altera superficialia. *Teleozoma* insuper insignis est sporis in ordine naturali forsan, in tribu quantum scio maximis obtuse trigonis pulchre striatis, puncto unico opaciore.

CRYPTOGRAMMA ACROSTICHOIDES.

Cryptogramma, frondibus bipinnatifidis, sterilium pinnulis ovalibus crenatis; fertiliū demum explanatis, soris linearibus discum totum occupantibus.

Hab. In shady rocky woods, between lat. 50° and 60° north. (First found by Mr. Menzies at Nootka Sound.)

Desc. *Filix* 4-8-uncialis, glabra, lætè virens, frondibus cæspitosis, stipitatis, crasso membranaceis opacis, venis vix adversus lucem conspicuis.

Frondes exteriores cæspitis *steriles*, circumscriptione lanceolata bipinnatifide apice pinnatæ pinnis distinctis alternis, brevissimè petiolatis; pinnulis confluentibus, ovalibus obtusis, crenatis, inferioribus passim dentatis, omnium venis e costa vix prominula acutangulis distinctis simplicibus bifidisve intra marginem crenaturæ desinentibus. *Stipites* pallidi, subtus semiteretes anticè bisulci, infra medium conspersi squamulis lineari-lanceolatis acuminatis disco fusco-atro limbo pallido, supra glabri. *Rachis* epaleata, angusta, compressa, colore et fere substantia frondis. *Frondes* centrales *fertiles* stipite sterilium longiore aliqui simili insidentes bipinnatæ: pinne petiolatæ: *pinnule* omnes fructiferae distinctæ inferiores brevissimè petiolatæ; ante explicationem involucri lineares, limbo utrinque recurvo efformante *involucrum* fornicatum discum totum operiens pallide viride venosum margine scarioso avenio sæpius induplicato: denum explanatæ angusto-oblongæ involucri quasi nullo: costa subtus particulis parvis flavis conspersa, venis costæ obliquis, altè bifidis fere bipartitis, distinctis.

Sori ramulos omnes venarum à basi fere ad apicem occupantes, lineares, distincti sed ita approximati ut discus totus pinnulæ explanatæ capsulis maturis tectus est, et in hoc stadio filix species *Grammitidis* vel *Acrostichi* quasi evadit.

Capsula brevè pedicellatæ, turgide lenticulares annulo incompleto, altero lateri infra annuli terminationem transversim dehiscentes, *receptaculo* communi elevato nullo sed venæ parum incrassatæ insidentes.

Sporule triangulares, leves, absque striis manifestis vel puncto opaciori, in cumulo dilutè flavæ separatim hyalinæ.

THE END.

Note to page 506 (omitted.)

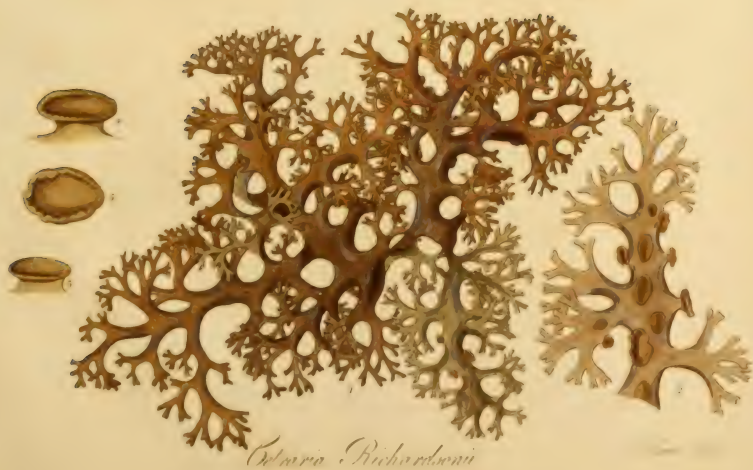
Professor Jameson having been requested to examine the specimens of limestone collected on the shores of Lake Winnipeg, and in the Cumberland-House district, obligingly sent the following note:

"The specimens of limestone received from you contain examples of the following fossil organic remains:

1. Limestone with *encrinites*. The encrinites are in fragments.
2. L. with *orthoceratites*
3. L. with *terebratula*.
4. L. with *caryophyllita*.
5. L. with *lingula*.

These fossils would seem to intimate that the rock in which they are contained belongs to the *Mountain limestone formation*, by many referred to the *transition*, by others to the oldest or deepest part of the *secondary class of rocks*."

LONDON:
PRINTED BY WILLIAM CLOWES,
Northumberland-court, Strand.





Chenopodium album

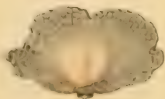
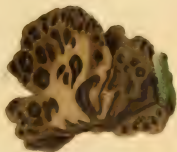
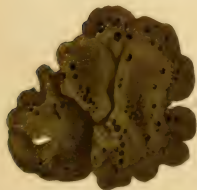
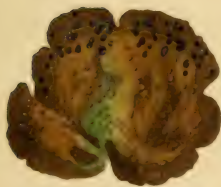
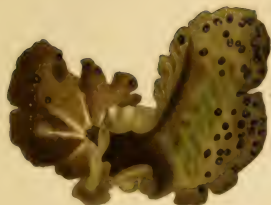
Chenopodium album L. var. *album* L.



Commersonia bartramia

Chilodactylus (Macleay) (Macleay) (Macleay)





Platystrophia subquadrata

Platystrophia subquadrata

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